| NASA | 1. SOLICITATION TYPE: RFO off DOT's ITOP II MAC | 2. DATE ISSUED: January 8, 2003 | 3. PAGE 1 of 40 |
|---|---|---|---|

# REQUEST FOR OFFER

| 4. ISSUED BY: CODE 0616 | 5. SUBMIT OFFERS TO: |
|---|---|
| **National Aeronautics and Space Administration**<br>**Glenn Research Center**<br>**Attn: Ron Sepesi**<br>**Services and Construction Branch**<br>**21000 Brookpark Road, Mail Stop 500-312**<br>**Brookpark, OH 44135-3191** | MAIL: **See Block 4.**<br>FAX: **N/A**<br>E:MAIL/INTERNET: **Not Authorized**<br>HANDCARRY: **Building 500, Lobby** |

6. ***CLOSES: February 18, 2003, 4:00 p.m. Local Time, Glenn Research Center, Cleveland, Ohio.***

7. DESCRIPTION OF REQUIREMENT:

The Offeror shall provide the services as outlined in the attached Statement of Work.

ENCLOSURE A - Excel Cost Spreadsheet
ENCLOSURE B - Client Questionnaire Cover Letter
ENCLOSURE C – Past Performance Questionnaire
ENCLOSURE D – Blanket Task Order Agreement

8. FOR INFORMATION CONTACT: **Ron Sepesi, Chief Services and Construction Branch**

| PHONE: | FACSIMILE: | E:MAIL/INTERNET ADDRESS: |
|---|---|---|
| **(216) 433-2792** | **(216) 433-5489** | Ronald.W.Sepesi@GRC.nasa.gov |

9. INSTRUCTIONS FOR OFFERORS:

a. This Procurement is limited to 8 (a) companies currently on the ITOP II Multiple Agency Contract.

b. The NAICS is 541519 Size Standard: $21 Million

## 10. SUBMMISSION OF QUESTIONS

Questions related to the substance of the solicitation should be submitted **by e-mail not later than January 22, 2003 to** Ronald.W.Sepesi@GRC.nasa.gov. The Government will respond to these questions with responses to all Offerors. Other questions of a more general nature can be handled via telephone or email.

## 11. BEST VALUE SELECTION PROCESS

A. This procurement will be conducted utilizing a Best Value Selection (BVS), which seeks to select an Offer based on the best combination of technical merit, price, and past performance. BVS takes advantage of the lower complexity of and predefines the Value Characteristics that will serve as the discriminators among Offers. The selection official has the latitude to select the firm for award that offers the best combination of factors and "Best Value" to the Government.

B. The Statement of Work (SOW) included in the attached model Task Order Agreement serves as the Government's baseline requirements. The following value characteristics establish what the Government considers to be valuable in an Offer. These value characteristics are performance based and permit selection of the Offer that provides better results for a reasonable increase in price. All Offers will be judged against these value characteristics and the requirements of the SOW.

Information requested in Paragraph 13 and 14 shall be submitted to permit proper evaluation of the Best Value Characteristics (BVC's).

C. The following (BVC's) are applicable to this procurement. Each BVC will receive an adjectival rating as described in paragraph 12. BVC's 1-4 are considered to be the **Technical Merit BVC's.**

1. A **Management Approach** that shows a thorough understanding of the technical requirements and provides for a highly effective and responsive operation to both long and short term needs. An organizational approach (including teaming arrangements, if any) that is streamlined and fully integrates all functions of the SOW. An approach that incorporates unique or innovative concepts to improve program management, operations, and provides for timely, cost effective technical performance.

2. A **Phase-in Plan** that offers minimum disruption to present operations and provides a comprehensive and realistic phase-in timeline and sequence of events.

3. **Key Personnel and Staffing Plan** that provides individuals with superior credentials and experience in the successful operation of similar programs. A staffing and compensation plan that provides for current employee continuity, long term stability, and can attract a highly skilled workforce.

4. Technical responses to **Sample Scenarios** that indicate a high level of technical understanding of the relevant issues and a sound solution to resolve these issues.

5. Company **Past Performance** and corporate capabilities similar in nature to the technical requirements of that being procured; highly successful technical and business performance over the prior three years; and considerable depth and breath of corporate capabilities in the SOW technical areas.

D. The Government will evaluate offers in two general steps:

Step One -- An initial evaluation will be performed to determine if all required information has been provided and the Offeror has made a reasonable attempt to present an acceptable offer. Offerors may be contacted for clarification purposes during the initial evaluation. Offerors determined not to be acceptable shall be notified and excluded from further consideration.

Step Two -- All acceptable Offers will be evaluated against the Best Value Characteristics and the SOW. At the conclusion of Step Two, the Government has the option, depending on the specific circumstances of the Offers received, to use one of the following approaches: (1) make a selection and award without discussions; (2) identify Offers considered to be "Finalists" and conduct discussions with these Offerors; (3) select a single company to hold final discussion leading to award of a Blanket Task Order.

At the conclusion of the evaluation, the individual adjectival rating of the Technical Merit BVC's will be consolidated into **a single, overall Technical Merit adjectival rating.**

Past performance will also be given a **single** adjectival rating.

Price will not be given a rating but will be evaluated for errors, omissions, and compared with other Offeror's. A probable cost analysis will also be performed.

**These three areas (Technical Merit, Past Performance, Price) will then be jointly considered in the final selection decision.**

Within the Technical Merit BVC's, Management Approach and Phase-in are considered to be most important. Overall, technical merit, past performance, and price are considered to be equal in importance.

The Government reserves the right during Step Two to require each Offeror to orally summarize the Technical Proposal during a 30 minute Oral Presentation that will consist primary of vu-graphs and handouts. The presentation shall be made by the proposed Program Manager and corporate officials. The Government reserves the right to ask clarifications during the presentation.

Additionally or in lieu of the above presentation, if a "Finalist" decision is made, the Government reserves the right to have only the "Finalist" orally summarize their proposal and/or respond to discussion questions.

## 12. RATING SYSTEM

A. Best Value Characteristics (BVCs): The BVCs for each Offeror will be assigned one of the following ratings.

*Excellent*: A characteristic that is deemed to exceed all essential elements and stated requirements and offers a distinct advantage to the Government.

*Very Good* – A characteristic that is deemed to exceed some essential elements and stated requirement and offers an advantage to the Government.

*Good/Satisfactory* – A characteristic that is deemed to address the essential elements and meet the stated requirements.

*Less than Satisfactory* – A characteristic that is deemed to be less than adequate in addressing the essential elements or meet the stated requirements.

B. Price: No adjective rating will be assigned to Price. Price/rates will be evaluated for omissions and errors and compared with other Offers. A probable cost analysis will be performed.

## 13. PROPOSAL PREPARATION INSTRUCTIONS - GENERAL

To facilitate the evaluation process, Offerors are requested to submit 1 original signed Offer and 5 copies. **Spirally bound offers are preferred.** Elaborate formats and binders are neither necessary nor desirable for proposal evaluation. Legibility, completeness, clarity, coherence, and conciseness will facilitate evaluation and assure that proper credit is assigned to your Offer. Vague statements shall be interpreted as evidence of a lack of understanding on the part of the Offeror or the inability to demonstrate adequate qualifications.

## 14. PROPOSAL PREPARATION INSTRUCTIONS - SPECIFIC

A. Offers should be submitted in two (2) volumes: Volume I -Technical Merit and Volume II - Past Performance and Business. Each volume shall include the detailed information outlined below. Offers shall be submitted to the Contracting Officer, at the address previously indicated in block 4 of the RFO form.

B. The Technical Merit Proposal (Volume I) shall not exceed 60 pages. (See NFS 1852.215-81, for format instructions). Efforts should be made to keep Offers as concise as possible, concentrating on the

Best Value Characteristics. The Technical Merit Volume should address the BVC's of Management Approach, Phase-in, and Key Personnel, and Sample Scenarios. No pricing information shall be included in the Technical Merit Proposal. In response to the technical BVC's, your technical proposal should include:

1. Management Approach. As a minimum, include a discussion of your management approach; understanding of the requirements; organizational structure; teaming arrangements (if any); and any methods, tools, or unique ideas to insure an effective, efficient, and responsive operation.

2. Phase-in. As a minimum, address how the effort will be effectively transitioned to minimize disruptions to current services. Include a discussion of activities, a detailed schedule of events, and the minimum phase-in period required. For the purposes of phase-in, assume a full performance start date of June 1, 2003. 2002.

3. Key personnel. Identify any individuals and that position which you consider to be "Key". Include a detailed resume of these proposed "key individuals" and a statement as to their availability and commitment. Include sources of personnel, planned training, and a detailed discussion of your long term staffing approach and compensation plan consistent with FAR 52.222-46.

4. Sample Scenarios. As a minimum, include a discussion of your technical approach to accomplish or resolve the following scenarios:

***Scenario 1 - Business Systems and Applications***

The mainframe, on which the business system applications reside, is going to be decommissioned. Several of those applications need to be created in either a Sybase or Oracle database to continue to provide an interface to the Integrated Financial Management (IFM) system. Also, since IFM has been implemented there are customers who cannot retrieve existing legacy system data through the Business Warehouse using SAP (the IFM software). The queries/reports developed by the Business Warehouse are insufficient for some users.

Describe all factors, considerations, and processes in determining whether a client server application or a web based application should be used to replicate the business systems applications interface. Likewise, explain your approach in providing the required legacy system data to customers.

***Scenario 2 - Advanced Networking Systems and Technologies Development Support***

Networked perimeter defense systems have triggered on some anomalous network traffic. Further inspection has determined that a system has been compromised. Describe the steps to be taken to deal with this situation and to prevent further compromises of this, or other systems in the future. Focus on the programmatic (security planning, risk management/acceptance…) aspects in your response, but also include any technical (system and network) issues that may be pertinent.

***Scenario 3 - Computational Scientific Servers***

A 128 node PC Linux Cluster is part of a computing grid used in a Space Propulsion Simulation involving machines at three NASA centers using GLOBUS. The simulation is controlled by NASA MSFC and is expected to last for six hours. The simulation starts up and executes for two hours and then the Glenn computing cluster begins to have difficulty communicating/responding to the overall simulation. Describe the process to be used to determine what is causing the delays.

***Scenario 4 – Emerging Technology Applications***

NASA decides to offer an agency-wide team collaboration service so that NASA virtual teams (that span NASA centers and external partner locations) can get work done with less reliance on travel. Base functionality includes a teamware product (such as eRoom), a conferencing product (such as WebEx), and later an integrated knowledge repository. How would you propose to staff and manage an office to administer and support this agency service (please consider the options of a: using Application Service Provider services and b: using the existing NASA Infrastructure System Services Utility, NISSU, data center to host services)? How would you approach achieving the NASA IT Security Business and Restricted

Technology (BRT) level rating? How would you approach assisting NASA teams so that they successfully adopt the tools?

***Scenario 5 – Facility Support***

A test facility with a supported steady state data system was put into mothball status. NASA required the facility to be reactivated due to programmatic testing requirements. Maintenance had not been performed at the facility for 2 years. Currently, thirty-two (32) out of fifty (50) test facilities are performing tests and their schedules must be maintained.

The research requirements dictated that a steady state data system based on the current production design be operational at the facility. Testing begins in six (6) months. The facility supports both classified and unclassified testing. The system requirements are similar in capacity to a number of other production facility systems; as far as the number of input channels and number of display stations.

Describe the process for reactivation of the data system including cost estimates, schedules, installation, acceptance testing, and required maintenance of the system. As an additional item, address the impact if the schedule for testing changes from six (6) months to three (3) months.

C. The Business Proposal (Volume II) **is not page limited.** However, the Business Proposal is to be strictly limited to Cost/Price information, Past Performance, and other requested information. The Past Performance information should be addressed as described below.

1. Past Performance Information. Submit the following information to describe your organization's experience and past performance during the past three years. This should include any major team member or subcontractor who will perform over 20% of the work effort.

Include with your Offer a list of current contracts similar in nature and scope for which you perform as the prime or subcontractor. The list shall include the contract number, type of contract, dollar value, issuing organization, contracting officer with telephone number at the organization, and description of work effort and how it is applicable to the proposed effort.

The Client Questionnaire Form (Enclosure C) of this solicitation will be used to collect information concerning your firm's past performance and that of any subcontractor and/or teaming partner. Submit the form to those customers where you performed as a prime contractor or subcontractor. A total of three (3) forms are required for the prime, and a minimum of 1 (max of 3) for each team member and/or subcontractor performing over 20% of the work.

Include the list of the firms that have been asked to complete and submit the past performance evaluation forms. Other reference information available to the Government (aside from those provided by the Offeror) may be contacted and their comments considered during the source selection process. The information submitted may be verified by the Government through discussions with the references provided. The Government reserves the right to consider information obtained from sources other than those provided by the Offeror. The burden of providing relevant references that the Government can readily contact rests with the Offeror.

Your customers should FAX or e-mail these forms to the Contracting Officer no later than the closing date of the solicitation. The FAX number and e-mail address is listed on the first page of the Form. You shall include in your proposal the written consent of your proposed significant subcontractors to allow the Government to discuss the subcontractor's past performance evaluation with you during the selection phase of this procurement.

2. Pricing Information. The intention of this Request for Offer is to obtain services by the means of the ITOP II MAC. The resulting Blanket Purchase Agreement type shall be Cost-Plus-Fixed-Fee with an incentive provision. Delivery/Task Orders will be issued for discreet work requirements.

Offeror's shall complete the provided excel Pricing Spreadsheet. Offeror's shall use the Government provided "plug numbers" for direct labor, travel, etc. The Offeror shall overlay the costs for the associated management structure, applicable rates, fees, and any unique costs. The Offeror shall fully explain and

support any offered rates, caps, or costs. It is the intent of the Government to provide on-site facilities and equipment (i.e. computer, phones, desks, office space, etc.). Costs shall include these assumptions. Rates shall be broken down into 5 twelve-month periods assuming a start date of June 1, 2003.

The Offeror may include a one-time fixed price phase-in amount for costs during the phase-in period. These costs do not have to be itemized.

The Offeror shall submit, along with a completed Excel Spreadsheet on a 1.44 floppy disk including a printed copy of the spreadsheet.

Government estimates have been provided in the excel spreadsheet. Offeror's **shall utilize** the Government estimates in the preparation of the pricing information.

Pricing related questions shall be submitted to Robert.P.Lisy@grc.nasa.gov or telephone at 216.433.2784.

3. Contractor Technical Incentive. The contractor shall include a discussion of any proposed methods or incentives that could be used by the Government to motivate overall contractor performance. The motivation can be in the form of a specialized incentive fee or award fee and be structured in such a fashion that superior performance can be reward appropriately rewarded by the Government.

# Instructions for Cost Sheets PACE II

## General Instructions

NASA realizes the difficulty offerors may have in trying to assess the required Direct Labor Hours, Direct Labor Categories, and Direct Labor hourly rates for the PACE II task related effort. Therefore, NASA has provided the Annual Direct Labor Hours distributed by Labor Category and Hourly Rates for use in estimating annual Direct Labor Costs. Offerors are to use 213,200 Direct Labor hours for each of the Basic and Option years of the contract effort as shown in the PACE II Labor Category Information schedule (Labor Stats tab). These hours have been distributed by Labor Category. They may be performed in whole or in part by any member of the contracting team. Also, Annual Direct Labor Escalation is provided for in each of the out years based on DRI rate information and must be used for escalating Direct Labor in each of the contract years.

Indirect Rates: Offerors are to provide on a separate schedule the algorithm used in development of their indirect rates. Subcontractor or Team Member indirect rate algorithms may be provided under separate cover directly to the Government in accordance with the RFP instructions.

## Rate Input Sheet

Data Resource Institute – Labor Escalation: Labor escalation of the life of the contract is based on third quarter annual escalation as forecasted by DRI for the Greater Cleveland Labor Market. These rates must be used for estimating purposes.

Offeror Input: The Offeror's and Subcontractors (Teaming Partners) Names, Labor OH and G&A percentages are to be inputted into the yellow highlighted cells.

## Labor Stats Sheet:

Information for Labor Category, Years of Service, Annual Direct Labor Hours and Average Hourly Wage are provided. The labor categories, average hours and average wage are to be used for estimating purposes. Labor is escalated automatically in the out years based on the DRI escalation. Labor hours for the Prime and Subcontractors must equal 213,200 hours for each year of the contract as distributed by NASA amongst the labor categories. Labor hour distribution between the Prime and Subcontractors should be based on the Offeror's methodology and unique efficiencies utilized in the accomplishment of the PACE II Statement of Work.

## Basic Labor-OH Prime (Subcontractor 1, Subcontractor 2)

Annual Direct Labor Hours are to be inputted in the yellow highlighted areas based on the requirement to have the Prime and Subcontractor's hours equal 213,200 as distributed between the labor categories on the Labor Stats sheet.

Project Management Labor categories, labor hourly rates, annual labor dollars and overhead dollars are to be inputted in the yellow highlighted areas for the Prime and Subcontractors. This area may be expanded as required.

**Basic Labor-OH All**

Accumulates the Basic Contract (first three years) labor and overhead costs. Yellow highlighted areas are to be inputted by the offeror. Both Prime and Subcontractor's direct labor hours must equal 213,200 hours as distributed in the Labor Stats worksheet. Project Management categories are combined for the Prime and all subcontractors, Categories should not be listed in the same cell for the Prime or Subcontractors.

**Option Labor - OH**

The spreadsheets are for the Contract Option and are the same as the Basic contract spreadsheets.

**Basic Total Yr 1 (Yr2, Yr3, Total)**

Project Management and Direct Labor amounts are automatically accumulated from the amount imputed and calculated on the Labor-OH spreadsheets.

Other Direct Costs *Task Related* are amounts estimated by NASA for Task related expenses for each year of the contract effort. NASA realizes the difficulty an Offeror would have in estimating these costs and has provided them for estimating purposes only.

Other Direct Costs *Contractor Specific* are amounts and categories necessary for an Offeror to fulfill the Statement Of Work based on their unique methodologies and efficiencies proposed for completion of the contract. Offerors are to provide a narrative explanation justifying the amounts and types of costs proposed for both the Prime and Subcontractors.

General and Administrative Input the Percentage and Amount.

Fee Input the amount.

Prime Contractor

PACE II Labor Category Information

| Labor Category | Average Years Experience at GRC | Annual Direct Labor Hours | Average Direct Hourly Rate | First Contract Year 6/1/03 | | | Second Contract Year 6/1/04 | | | Third Contract Year 6/1/05 | | | Basic Contract | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Average Direct Hourly Labor Rate Escalated 3.2% | Average Direct Annual Labor Amount | Overhead as Percentage of Labor $'s 0.00% | Average Direct Hourly Labor Rate Escalated 3.3% | Average Direct Annual Labor Amount | Overhead as Percentage of Labor $'s 0.00% | Average Direct Hourly Labor Rate Escalated 3.5% | Average Direct Annual Labor Amount | Overhead as Percentage of Labor $'s 0.00% | Average Direct Annual Labor Amount | Overhead as Percentage of Labor $'s |
| Administrative Support | 7.00 | - | $ 17.21 | $ 17.76 | $ - | $ - | $ 18.35 | $ - | $ - | $ 19.00 | $ - | $ - | $ - | $ - |
| Application Programmer | 7.83 | - | $ 26.27 | $ 27.10 | - | - | $ 28.01 | - | - | $ 29.00 | - | - | - | - |
| Consultant | 8.67 | - | $ 28.96 | $ 29.88 | - | - | $ 30.88 | - | - | $ 31.96 | - | - | - | - |
| Data Entry Clerk | 4.25 | - | $ 13.84 | $ 14.28 | - | - | $ 14.75 | - | - | $ 15.27 | - | - | - | - |
| Data Validation/Std Spec/Data Tech | 5.50 | - | $ 17.74 | $ 18.31 | - | - | $ 18.92 | - | - | $ 19.58 | - | - | - | - |
| Database Management Specialist | 6.17 | - | $ 31.06 | $ 32.05 | - | - | $ 33.12 | - | - | $ 34.29 | - | - | - | - |
| Documentation Specialist | 3.00 | - | $ 15.21 | $ 15.69 | - | - | $ 16.22 | - | - | $ 16.79 | - | - | - | - |
| Engineer | 3.00 | - | $ 32.68 | $ 33.72 | - | - | $ 34.85 | - | - | $ 36.07 | - | - | - | - |
| Engineer Manager | 1.00 | - | $ 38.94 | $ 40.18 | - | - | $ 41.52 | - | - | $ 42.98 | - | - | - | - |
| Functional Analyst/Software Eng Sr | 8.29 | - | $ 33.70 | $ 34.77 | - | - | $ 35.93 | - | - | $ 37.20 | - | - | - | - |
| Hardware/NW Install Technician | 8.12 | - | $ 18.15 | $ 18.72 | - | - | $ 19.35 | - | - | $ 20.03 | - | - | - | - |
| Junior Application Programmer | 2.50 | - | $ 23.95 | $ 24.71 | - | - | $ 25.53 | - | - | $ 26.43 | - | - | - | - |
| Junior Hardware/NW Install Tech | 5.33 | - | $ 19.87 | $ 20.50 | - | - | $ 21.19 | - | - | $ 21.93 | - | - | - | - |
| Operations Manager | 1.00 | - | $ 33.75 | $ 34.82 | - | - | $ 35.99 | - | - | $ 37.25 | - | - | - | - |
| Principal Consultant | 6.95 | - | $ 43.40 | $ 44.78 | - | - | $ 46.28 | - | - | $ 47.91 | - | - | - | - |
| Project Control Specialist | 2.00 | - | $ 42.00 | $ 43.33 | - | - | $ 44.78 | - | - | $ 46.36 | - | - | - | - |
| Project Manager | 19.00 | - | $ 42.00 | $ 43.33 | - | - | $ 44.78 | - | - | $ 46.36 | - | - | - | - |
| Quality Assurance Manager | 13.00 | - | $ 84.87 | $ 87.57 | - | - | $ 90.50 | - | - | $ 93.68 | - | - | - | - |
| Sr Application Programmer | 2.00 | - | $ 65.00 | $ 67.06 | - | - | $ 69.31 | - | - | $ 71.75 | - | - | - | - |
| Sr Consultant | 9.57 | - | $ 38.48 | $ 39.70 | - | - | $ 41.03 | - | - | $ 42.47 | - | - | - | - |
| Sr Database Management Specialist | 10.00 | - | $ 46.76 | $ 48.24 | - | - | $ 49.86 | - | - | $ 51.61 | - | - | - | - |
| Sr Engineer | 7.70 | - | $ 28.93 | $ 29.85 | - | - | $ 30.85 | - | - | $ 31.93 | - | - | - | - |
| Sr Software Engineer | 13.00 | - | $ 35.11 | $ 36.22 | - | - | $ 37.44 | - | - | $ 38.76 | - | - | - | - |
| Sr Training Specialist | 4.00 | - | $ 25.12 | $ 25.92 | - | - | $ 26.79 | - | - | $ 27.73 | - | - | - | - |
| Sr Info Engineer | 5.83 | - | $ 30.22 | $ 31.18 | - | - | $ 32.22 | - | - | $ 33.35 | - | - | - | - |
| Systems Engineer | 7.50 | - | $ 26.07 | $ 26.90 | - | - | $ 27.80 | - | - | $ 28.78 | - | - | - | - |
| Technical Writer | 6.50 | - | $ 23.51 | $ 24.26 | - | - | $ 25.07 | - | - | $ 25.95 | - | - | - | - |
| Totals | | 0 | | | $ - | $ - | | $ - | $ - | | $ - | $ - | $ - | $ - |

| Project Management<br>List Personnel Category Expand if Needed | Annual Direct Labor Hours | Average Direct Hourly Rate | First Contract Year 6/1/03 | | | Second Contract Year 6/1/04 | | | Third Contract Year 6/1/05 | | | Basic Contract | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Average Direct Hourly Labor Rate Escalated | Average Direct Annual Labor Amount | Overhead as Percentage of Labor $'s | Average Direct Hourly Labor Rate Escalated | Average Direct Annual Labor Amount | Overhead as Percentage of Labor $'s | Average Direct Hourly Labor Rate Escalated | Average Direct Annual Labor Amount | Overhead as Percentage of Labor $'s | Average Direct Annual Labor Amount | Overhead as Percentage of Labor $'s |
| | - | | | | | | | | | | | $ - | $ - |
| | - | | | | | | | | | | | - | - |
| | - | | | | | | | | | | | - | - |
| | - | | | | | | | | | | | - | - |
| | - | | | | | | | | | | | - | - |
| | - | | | | | | | | | | | - | - |
| | - | | | | | | | | | | | - | - |
| | - | | | | | | | | | | | - | - |
| | - | | | | | | | | | | | - | - |
| Totals | 0 | | | $ - | $ - | | $ - | $ - | | $ - | $ - | $ - | $ - |

| Data Resource Institute - Labor Escalation | | | | | | |
|---|---|---|---|---|---|---|
| Cleveland Area Labor Market - Non Agracultural | | | | | | |
| 2002Q3 - Annual, 2003 to 2008 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 |
| AVG ANN WAGE-TOT NON-AGR EMP (1000S)-CLEVELAND (08/09/2002) | | | | | | |
| RWEEA@1680 | 39.730 | 41.059 | 42.505 | 44.056 | 45.643 | 47.244 |
| %CHYA | 3.2 | 3.3 | 3.5 | 3.7 | 3.6 | 3.5 |

## Offeror Input

| Company Name | Prime Contractor | | | | | |
|---|---|---|---|---|---|---|
| | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 |
| Labor Overhead Percentage of Labor Amount | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| General and Administrative Total Cost Percentage | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |

| Company Name | Subcontractor #1 | | | | | |
|---|---|---|---|---|---|---|
| | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 |
| Labor Overhead Percentage of Labor Amount | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| General and Administrative Total Cost Percentage | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |

| Company Name | Subcontractor # 2 | | | | | |
|---|---|---|---|---|---|---|
| | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 |
| Labor Overhead Percentage of Labor Amount | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| General and Administrative Total Cost Percentage | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |

## Annual Direct Labor: Categories - Direct Labor Hours - Average Direct Wage on 1/1/03

| PACE II Labor Category Information | | | |
|---|---|---|---|
| Labor Category | Average Years Experience at GRC | Annual Direct Labor Hours | Average Direct Hourly Rate CY 1/1/03 |
| Administrative Support | 7.00 | 1,000 | $ 17.21 |
| Application Programmer | 7.83 | 29,800 | $ 26.27 |
| Consultant | 8.67 | 22,200 | $ 28.96 |
| Data Entry Clerk | 4.25 | 6,300 | $ 13.84 |
| Data Validation/Std Spec/Data Tech | 5.50 | 4,800 | $ 17.74 |
| Database Management Specialist | 6.17 | 5,500 | $ 31.06 |
| Documentation Specialist | 3.00 | 6,500 | $ 15.21 |
| Engineer | 3.00 | 1,900 | $ 32.68 |
| Engineer Manager | 1.00 | 1,900 | $ 38.94 |
| Functional Analyst/Software Eng Sr | 8.29 | 12,100 | $ 33.70 |
| Hardware/NW Install Technician | 8.12 | 14,800 | $ 18.15 |
| Junior Application Programmer | 2.50 | 3,800 | $ 23.95 |
| Junior Hardware/NW Install Tech | 5.33 | 5,000 | $ 19.87 |
| Operations Manager | 1.00 | 100 | $ 33.75 |
| Principal Consultant | 6.95 | 18,200 | $ 43.40 |
| Project Control Specialist | 2.00 | 1,900 | $ 42.00 |
| Project Manager | 19.00 | 1,900 | $ 42.00 |
| Quality Assurance Manager | 13.00 | 2,000 | $ 84.87 |
| Sr Application Programmer | 2.00 | 1,800 | $ 65.00 |
| Sr Consultant | 9.57 | 38,600 | $ 38.48 |
| Sr Database Management Specialist | 10.00 | 3,600 | $ 46.76 |
| Sr Engineer | 7.70 | 7,600 | $ 28.93 |
| Sr Software Engineer | 13.00 | 4,000 | $ 35.11 |
| Sr Training Specialist | 4.00 | 200 | $ 25.12 |
| Sr Info Engineer | 5.83 | 5,700 | $ 30.22 |
| Systems Engineer | 7.50 | 7,300 | $ 26.07 |
| Technical Writer | 6.50 | 4,700 | $ 23.51 |
| Totals | | 213,200 | |

**ENCLOSURE B**

CLIENT AUTHORIZATION LETTER

Date

Dear "Client":

We are currently responding to the NASA Glenn Research Center's Request for Offer RFO for the procurement of Professional, Administrative and Computational Engineering Support II (PACE II) Schedule

NASA Glenn is placing increased emphasis in its procurements on relevant experience and past performance as an evaluation factor. A requirement of this solicitation is that clients of entities responding to this solicitation are identified and their participation in the evaluation process is requested. In the event you are contacted for information on work we have performed, you are hereby authorized to respond to those inquiries.

Please complete the enclosed Business Management Questionnaire and e-mail it directly to

A response to this questionnaire is requested to the above address February 18, 2003

We have identified Mr./Ms._____ of your organization as the point of contact based on their knowledge concerning our work. Your cooperation is appreciated. Any questions may be directed to: _____.

Sincerely,

Enclosure

ENCLOSURE # C

[This form contains Source Selection Information when completed (See FAR 3.104)

# PAST PERFORMANCE QUESTIONAIRE

Offeror's Historical Data

| | |
|---|---|
| Offeror | |
| Contract No./Title | |
| | |
| Contract Type | |
| TIN# | |
| Contract Purpose | |
| Contract Award Date | |
| Period of Performance | |
| Total Contract Value | |
| Value of Contractor's Share | |

| Mark the appropriate box: | Yes | No |
|---|---|---|
| Was the contractor a prime contractor | | |
| Was the contractor a subcontractor | | |

If this is/was an award fee contract, please provide award fee dollars and percentages earned for the last year:

| Dollar amount | % |
|---|---|
| | |
| | |
| | |

| Mark the appropriate box: | Yes | No |
|---|---|---|
| Is the contractor in an overrun situation | | |
| Is the contractor in an under run situation | | |

If yes, please explain

| |
|---|
| |

Program Title and nature of the effort (i.e., describe the scope of the effort, the type of tasks involved, labor skills used, and products/support delivered)

| |
|---|
| |

RATINGS AND QUESTIONS:

For each item requesting a rating, respond with the rating that best describes the contractor's performance for the referenced contract or order. If an item is not applicable to your contract or order, or if you do not know how the contract is performed/is performing on that item, please respond with an N. The rating scale is defined as:

| | |
|---|---|
| Excellent | Consistent record of exceptional past performance by the offeror and any proposed major subcontractors on work identical or very similar to the work requirements of the proposed contract. Many strengths and no weaknesses. |
| Very Good | Consistent record of successful past performance by the offeror and any proposed major subcontracts on work identical or very similar to the work requirements of the proposed contract. Strengths far outweigh any weaknesses. |
| Good | Successful past performance by the offeror and any proposed major subcontracts on work identical or very similar to the work requirements of the proposed contract. Strengths outweigh any weaknesses. |
| Neutral | Neutral score. Assigned to offerors with no relevant past performance |
| Poor | Weaknesses far outweigh strengths. |
| Fails | Significant weaknesses with no strengths |

Respondent Information

| | |
|---|---|
| Name | |
| Phone, Commercial | |
| Fax Number | |
| Position/Title | |
| Relationship to Program | |
| Length of Involvement | |

Technical Performance Questions

1. Has this contract or tasks been partially or completely terminated or subject to litigation?

Mark the appropriate box:

| | |
|---|---|
| | Yes |
| | No |
| | Default |
| | Convenience |
| | Litigation |

If other than "No", please explain If yes, please explain

| |
|---|
| |

2. Changes in the contract dollar value throughout the contract are/were attributable to:

Mark the appropriate box:

| | |
|---|---|
| | Government issued change orders |
| | Other Government actions |
| | Not Applicable |
| | Claims submitted by contractor |
| | Other contractor actions |

If other than "No", please explain If yes, please explain

| |
|---|
| |

3. Did the key personnel that where offered in the original proposal remain with the contract after award? If not where the replacements equally qualified?

| |
|---|
| |

4. Rate the contractor's record in supporting the insertion of new technology:

| E | VG | G | F | P | N |
|---|---|---|---|---|---|
| | | | | | |

Mark appropriate box

Comments

| |
|---|
| |

5. Rate the contractor's record in completing tasks/milestones/deliverables within established time schedules.

| E | VG | G | F | P | N |
|---|---|---|---|---|---|
| | | | | | |

Mark appropriate box

Comments

6. Rate the contractor's record in demonstrating a thorough understanding of the nature of the work required and the disciplines required to accomplish:

| E | VG | G | F | P | N |
|---|---|---|---|---|---|
| | | | | | |

Mark appropriate box

Comments

7. Rate the contractor's record in its ability to adapt to changes in task order requirements or changes in priority:

| E | VG | G | F | P | N |
|---|---|---|---|---|---|
| | | | | | |

Mark appropriate box

Comments

8. Rate the contractor's record in identifying and mitigating risks:

| E | VG | G | F | P | N |
|---|---|---|---|---|---|
| | | | | | |

Mark appropriate box

Comments

9. Rate the contractor's record in establishing, maintaining and implementing a configuration management system:

| E | VG | G | F | P | N |
|---|---|---|---|---|---|
| | | | | | |

Mark appropriate box

Comments

10. Rate the contractor's record in design, development, and validation of hardware and software systems:

| E | VG | G | F | P | N |
|---|---|---|---|---|---|
| | | | | | |

Mark appropriate box

Comments

11. Rate the contractor's record in maintaining materials/spares and maintaining current database inventory documentation:

| E | VG | G | F | P | N |
|---|---|---|---|---|---|
| | | | | | |

Mark appropriate box

Comments

12. Rate the overall technical quality of the effort of this contractor for your contract:

| E | VG | G | F | P | N |
|---|---|---|---|---|---|
| | | | | | |

Mark appropriate box

Comments

Contract Management and Administrative Questions

13. Rate the contractor's record in accurately estimating and managing resources required to perform the assigned tasks in accordance with requirements:

| E | VG | G | F | P | N |
|---|---|---|---|---|---|
| | | | | | |

Mark appropriate box

Comments

14. Rate the contractor's record in responding to, and negotiating task orders:

| E | VG | G | F | P | N |
|---|---|---|---|---|---|
| | | | | | |

Mark appropriate box

Comments

15. Rate the contractor's record in reacting quickly to meet changing requirements:

| E | VG | G | F | P | N |
|---|---|---|---|---|---|
| | | | | | |

Mark appropriate box

Comments

16. Rate the contractor's record in complying with safety, health and environmental procedures:

| E | VG | G | F | P | N |
|---|---|---|---|---|---|
| | | | | | |

Mark appropriate box

Comments

17. Rate the contractor's record in accurately estimating and controlling costs to complete tasks.

| E | VG | G | F | P | N |
|---|---|---|---|---|---|
| | | | | | |

Mark appropriate box

Comments

18. Rate the contractor's record in providing regular cost and status reports:

| E | VG | G | F | P | N |
|---|---|---|---|---|---|
| | | | | | |

Mark appropriate box

Comments

19. Rate the contractor's record in effectively managing subcontractors:

| E | VG | G | F | P | N |
|---|---|---|---|---|---|
| | | | | | |

Mark appropriate box

Comments

20. In your opinion, what, if any, would you consider the contractor's strong points.

21. In your opinion, what, if any, would you consider the contractor's weak points.

22. Please provide any further information that you feel is pertinent but was not covered by this questionnaire.

| |
|---|
| |

23. Overall, how would you rate the complete contract performance?

| E | VG | G | F | P | N |
|---|---|---|---|---|---|
| | | | | | |

[This form contains Source Selection Information when completed (See FAR 3.104)]

National Aeronautics and
Space Administration

**Glenn Research Center**
Cleveland, OH 44135-3191

0616

January 8, 2003

To: **Prospective ITOP II Offeror's**

From: NASA Glenn Research Center
Services and Construction Branch
Attn: Ron Sepesi
21000 Brookpark Rd.
Brookpark, Ohio 44135

Subject: **RF03-212121** Professional, Administrative and Computational Engineering Support II (PACE II) Services

The NASA Glenn Research Center has an Information Technology (IT) Support requirement for Professional, Administrative and Computational Engineering Support II (PACE II) Services.

This requirement is a follow-on to contract NAS3-99175 with RS Information Systems, Inc. The approximate annual dollar value of the anticipated effort is $13 million.

In order to fulfill the Center's Mission and Program requirements, a Blanket Task Order under the Department of Transportation's (DOT's) Information Technology Omnibus Procurement II (ITOP II) Multi-Agency Contract is anticipated. The Blanket Task Order will provide products and services for the following areas: Business Systems and Applications, Computational Scientific Services, Advanced Networking Systems and Technology Development Support, Facility Support, and Emerging Technology Application. **The Blanket Task Order will be issued on a cost-plus-fixed-fee (CPFF) basis.** NASA will then issue delivery/task orders for discreet work requirements. The period of performance will be up to five years: a three year base period and one two year option.

Only 8(a) contractors currently on the ITOP II Schedule under one of the three functional areas will be considered for an award.

The **tentative** procurement schedule is as follows:

| Milestone | Estimated Completion Date |
|---|---|
| RFP Package Issued | January 8, 2003 |
| Questions Cut-off | January 22, 2003 |
| Proposals Due | February 18, 2003 |
| Evaluations Complete | March 28, 2003 |
| Selection | April 11, 2003 |
| Commence Phase-in | May 1, 2003 |
| Full Performance | June 1, 2003 |

The firms that received this RFO are listed in the Distribution. The Government will use a **"Best Value"** selection process described in this RFO. **Please note there is no planned site visit.**

For addition information, contact Ron Sepesi at 216.433.2792 or electronic correspondence forward to Ronald.W.Sepesi@GRC.nasa.gov

Ron Sepesi
Chief, Services and Construction Branch

Distribution:

Advanced Management Technology, Inc.
Datamat Systems Research Inc.
The Centech Group Inc.
QSS Group, Inc.
RS Information Systems, Inc.
Allied Technology Group, Inc.
Integrated Management Systems, Inc.
TWM Associates, Inc.

| NASA | Blanket Task Order Agreement | 1.DPAS DO-C2 | 2. PPC | 3. INIT.OFC. N/A | 4. PAGE 1 of 31 |
|---|---|---|---|---|---|
| 5. ~~CONTRACT~~ NO. | 6. EFFECTIVE DATE | 7. PROCUREMENT REQUEST NO. RFO3-212121 | | 8. VENDOR CODE N/A | |

| 9. ISSUED BY | CODE 0616 | 10. CONTRACTOR NAME AND ADDRESS |
|---|---|---|
| NASA Glenn Research Center<br>Services & Construction Branch [MS 500-312]<br>21000 Brookpark Road<br>Cleveland, Ohio 44135 | | NAME AND TELEPHONE NO. OF CONTRACT ADMINISTRATOR: |
| 11. ADMINISTERED BY | CODE N/A | 12. PAYMENT WILL BE MADE BY CODE N/A |
| SEE BLOCK NINE (09) ABOVE | | NASA Glenn Research Center<br>Financial Management Division [Mail Stop 500-303]<br>21000 Brookpark Road<br>Brookpark, Ohio 44135 |
| 13. SUBMIT INVOICES TO | CODE N/A | 14. ACCOUNTING AND APPROPRIATIONS DATA |
| Paying Office - see Item 12 | | |

| 15A. TASK ORDER TYPE: Cost plus Fixed Fee | 15B. INCREMENTAL FUNDING: X |
|---|---|

16. TABLE OF CONTENTS



17. ITEMS AWARDED UNDER THIS CONTRACT

Professional, Administrative, and Computational Engineering Support II (PACE II) in accordance with the attached Statement of Work.

| 18A. CONTRACTOR | 18B. NASA GLENN RESEARCH CENTER | |
|---|---|---|
| 19. NAME AND TITLE (TYPE OR PRINT) | 20. NAME OF CONTRACTING OFFICER | |
| 21. SIGNATURE (OF PERSON AUTHORIZED TO SIGN) | 22. SIGNATURE | |
| CONTRACTOR DATE | UNITED STATES OF AMERICA DATE | |

The terms and conditions of Contract DTTS59-99-D-00TBD are applicable to this Blanket Task Order and are incorporated herein. The contractor shall also comply with the following NASA Glenn specific task order clauses, terms and conditions:

## 1. ITEMS TO BE ACQUIRED

The contractor shall furnish all personnel, facilities, equipment, material, supplies, and services (except as may be expressly set forth in this contract as furnished by the Government) and otherwise do all things necessary to, or incident to, performing in accordance with the attached Statement of Work and the to be issued delivery orders.

## 2. ESTIMATE COSTS

The estimated costs are as follows:

| PERIOD | Estimated Costs | Fixed Fee | Estimated Costs and Fee |
|---|---|---|---|
| Base Period (36 Months) | | | |
| Option Period (24 Months) | | | |
| Totals | | | |

## 3. PLACE OF PERFORMANCE

The place of performance shall be on-site at the Glenn Research Center or other location as indicated in the issued work orders.

## 4. AVAILABILITY OF FUNDS

Funds are not presently available for this contract. The Government's obligation under this contract is contingent upon the availability of appropriated funds from which payment for contract purposes can be made. No legal liability on the part of the Government for any payment may arise until funds are made available to the Contracting Officer for this contract and until the Contractor receives notice of such availability, to be confirmed in writing by the Contracting Officer.

## 5. PERIOD OF PERFORMANCE - BASIC AND OPTIONS

The initial period of performance hereunder shall be for a period of three years (36 months) commencing on the effective date of the contract. Subsequent periods, if any, shall be for periods of two years. If the Government requires performance of services after the initial contract period, notification to the Contractor of such requirement shall be in accordance with the clause 52.217-9 entitled "Option to Extend the Term of the Contract." The maximum period shall normally not exceed 5 years.

## 6. INSTALLATION-ACCOUNTABLE GOVERNMENT PROPERTY (NFS 1852.245-71) (JUN 1998)

(a) The Government property described in the clause at 1852.245- 77, List of Installation-Accountable Property and Services, shall be made available to the Contractor on a no-charge basis for use in performance of this contract. This property shall be utilized within the physical confines of the NASA installation that provided the property. Under this clause, the Government retains accountability for, and title to, the property, and the Contractor assumes the following user responsibilities:

See (1) NASA Procedures and Guidance (NPG) 4200.1 "NASA Equipment Management Manual", (2) NPG 4200.2 "NASA Equipment Management User's Guide for Property Custodians", (3) NPG 4300.1 "NASA Personal Property Disposal", and (4) NPG 4310.4 "Identification and Disposition of NASA Artifacts" for applicable user responsibilities.

The contractor shall establish and adhere to a system of written procedures for compliance with these user responsibilities. Such procedures must include holding employees liable, when appropriate, for loss, damage, or destruction of Government property.

(b) (1) The official accountable record keeping, physical inventory, financial control, and reporting of the property subject to this clause shall be retained by the Government and accomplished by the installation Supply and Equipment Management Officer (SEMO) and Financial Management Officer. If this contract provides for the contractor to acquire property, title to which will vest in the Government, the following additional procedures apply:

(i) The contractor's purchase order shall require the vendor to deliver the property to the installation central receiving area;

(ii) The contractor shall furnish a copy of each purchase order, prior to delivery by the vendor, to the installation central receiving area:

(iii) The contractor shall establish a record of the property as required by FAR 45.5 and 1845.5 and furnish to the Industrial Property Officer a DD Form 1149 Requisition and Invoice/Shipping Document (or installation equivalent) to transfer accountability to the Government within 5 working days after receipt of the property by the contractor. The contractor is accountable for all contractor-acquired property until the property is transferred to the Government's accountability.

(iv) Contractor use of Government property at an off-site location and off-site subcontractor use require advance approval of the contracting officer and notification of the SEMO. The contractor shall assume accountability and financial reporting responsibility for such property. The contractor shall establish records and property control procedures and maintain the property in accordance with the requirements of FAR Part 45.5 until its return to the installation.

(2) After transfer of accountability to the Government, the contractor shall continue to maintain such internal records as are necessary to execute the user responsibilities identified in paragraph (a) and document the acquisition, billing, and disposition of the property. These records and supporting documentation shall be made available, upon request, to the SEMO and any other authorized representatives of the contracting officer.

(End of clause)

**7. LIST OF INSTALLATION-ACCOUNTABLE PROPERTY AND SERVICES (NFS 1852.245-77) (JUL 1997) (GRC MODIFICATION) (NOV 2000)**

In accordance with the clause at 1852.245-71, Installation- Accountable Government Property, the Contractor is authorized use of the types of property and services listed below, to the extent they are available, in the performance of this contract within the physical borders of the installation which may include buildings and space owned or directly leased by NASA in close proximity to the installation, if so designated by the Contracting Officer.

(a) On-site office space, work area space, including utilities, and parking for all contractor technical and support personnel that are charged direct to this contract.

(b) General- and special-purpose equipment, including office furniture.

(1) Equipment to be made available is listed in as an attachment. In addition, "untagged" equipment, specifically office furniture (desks, chairs, file cabinets, tables, etc.) is available for all on-site contractor personnel. The Government retains accountability for this property under the clause at 1852.245-71, Installation-Accountable Government Property, regardless of its authorized location.

(2) If the Contractor acquires property, title to which vests in the Government pursuant to other provisions of this contract, this property also shall become accountable to the Government upon its entry into Government records as required by the clause at 1852.245-71, Installation-Accountable Government Property.

(3) The Contractor shall not bring to the installation for use under this contract any property owned or leased by the Contractor, or other property that the Contractor is accountable for under any other Government contract, without the Contracting Officer's prior written approval.

(c) Supplies from stores stock.

(d) Publications and blank forms stocked by the installation.

(e) For all contractor personnel (regardless of location), the contractor shall provide for their own information technology (IT) needs. Minimally however, any desired connections to GRC's local area network and telephone services shall be obtained through a direct contractual arrangement with GRC's ODIN contractor. The contractor may provide for their remaining IT needs on their own or obtain any or all of these services (including desktops, software, maintenance, system administration and related services) directly from the ODIN contractor. The contact for the ODIN contractor, Affiliated Computer Services (ASC)-Government Solutions Group, is Jerry Stanley (216) 977- 0700. In the event that the contractor chooses to provide for any of these additional IT services through means other than the GRC ODIN contractor, the contractor shall (i) strictly comply with all current and future Government, NASA, and Glenn relevant policies and standards and (ii) be solely responsible for ensuring compatibility and interoperability with Glenn systems wherever required.

(f) Safety and fire protection for Contractor personnel and facilities.

(g) Installation service facilities including library, computer, etc.

(h) Fitness Center facilities under the following conditions:

(1) Applications shall be submitted to, and shall be processed by, the support service contractor currently operating the Fitness Center for the Government.

(2) The procedure for receiving and processing applications, obtaining a medical authorization from a licensed physician, and selection of applicants for participation will be similar to the procedure for Government employees.

(3) All individuals applying for participation shall sign a statement waiving the Government from any liability for personal injury during participation in Fitness Center activities.

(i) Medical treatment of a first-aid nature for Contractor personnel injuries or illnesses sustained during on-site duty. In all instances of severe injury, or sudden life threatening illness (e.g. heart attack), the Emergency Medical Technician Squad shall be summoned immediately, by dialing 911. Referrals to tertiary care centers and for private physicians will be made in cases requiring long-term follow-up, or when specific services required are unavailable on-site.

(j) Cafeteria privileges for Contractor employees during normal operating hours.

(k) Building maintenance, including janitorial services, for facilities occupied by Contractor personnel. Building maintenance includes structural repairs and HVAC unit service, but does not include contractor-desired alterations or improvements to office walls, floor coverings, or doors.

(l) Moving and hauling for office moves, movement of large equipment, and delivery of supplies. Moving services shall be provided on-site, as approved by the Contracting Officer.

(m) The user responsibilities of the Contractor are defined in paragraph (a) of the clause at 1852.245-71, Installation-Accountable Government Property.

**8. (LIMITED) RELEASE OF CONTRACTOR CONFIDENTIAL BUSINESS INFORMATION (CBI) (GRC 52.203-91) (OCT 2000)**

(a) NASA may find it necessary to release information submitted by the Contractor, either in response to this solicitation or pursuant to the provisions of this contract, to individuals not employed by NASA. Business information that would ordinarily be entitled to confidential treatment may be included in the information released to these individuals. Accordingly, by submission of this proposal, or signature on this contractor other contracts, the Contractor hereby consents to a limited release of its confidential business information (CBI).

(b) Possible circumstances where the Agency may release the Contractor's CBI include, but are not limited to, the following:

(1) To other Agency contractors and subcontractors, and their employees tasked with assisting the Agency in handling and processing information and documents in the evaluation, the award or the administration of Agency contracts, such as providing both pre-award and post-award audit support and specialized technical support to NASA's technical evaluation panels;

(2) To NASA contractors and subcontractors, and their employees engaged in information systems analysis, development, operation, and maintenance, including performing data processing and management functions for the Agency.

(c) NASA recognizes its obligation to protect the Contractor from competitive harm that could result from the release of such information to a competitor. Except where otherwise provided by law, NASA will permit the limited release of CBI under subparagraphs (1) or (2) only pursuant to non-disclosure agreements signed by the assisting contractor or subcontractor, and their individual employees who may require access to the CBI to perform the assisting contract.

(d) NASA's responsibilities under the Freedom of Information Act are not affected by this clause.
(e) The Contractor agrees to include this clause, including this paragraph (e), in all subcontracts at all levels awarded pursuant to this contract that require the furnishing of confidential business information by the subcontractor.

**9. CONTRACTORS' DUTIES AND RESPONSIBILITIES ON-SITE (GRC 52.209-90) (SEP 2002)**

I. BADGES

All Contractor personnel having a need to enter areas of the Glenn Research Center or Plum Brook Station shall have an identification badge or pass. This badge or pass shall be obtained at the entrance of the Glenn Research Center or Plum Brook Station. In addition to the requirements contained herein, the Contractor shall comply with Glenn Procedures and Guidelines GLPG 3730.1, Managing Conduct and Other Employee Issues, incorporated herein by reference and made a part hereof.

Resident Contractors (employees with picture badges)

1. The on-site company supervisor will notify the Main Gate Badge Clerk at PABX 3-2206 when a new employee is reporting to work. The Badge Clerk will give the company supervisor specific instructions as to how the new employee will be badged, photographed, fingerprinted, etc.

2. When an employee terminates and/or resigns employment, the company shall issue to the employee NASA Form C-10087, Non-NASA Separation Clearance Record. The company shall be responsible for making an inquiry of all offices listed on the form to see if the employee has any outstanding Government items. The employee shall then take this form to all offices that list he/she has outstanding items. The employees last stop is for the return of their Government issued I.D. badge.

3. The Company shall ensure that the terminated and/or resigned employee has returned his/her badge to the Main Gate Badge Clerk. Final clearance of a Contractor upon completion of a contract will depend in part upon accounting for all badges issued to employees during the performance of the contract. It should be recognized that security badges are Government property and any alteration or misuse of these badges may be prosecuted as a violation of Section 499, Title 18, U.S. Code.

Non-Resident Contractors (employees with non-picture badges)

1. The Contractor's on-site manager shall comply with the Badge and Property Regulations (NASA Form C-421) a copy of which will be given the Contractor's supervisors at the time of the Construction Site Showing. The Badge and Property Regulations are quoted below:

A. The following regulations have been adopted governing the control of Contractor's Badges at the Glenn Research Center.

1. Ensure that each company employee is in possession of NASA Form C-9975 prior to reporting to work for badging purposes. Employees not in possession of the above mentioned for will be delayed at the gate until such time as the company supervisor/foreman or his representative reports to the Main Gate with the appropriate paperwork for badging.

2. Report lost badges immediately.

3. Upon termination of duties, each employee's badge will be collected and returned to the Main Gate by the Contractor. Final clearance of a Contractor upon completion of a contract will depend in part upon the accounting for all badges issued to employees during the performance of the contract. It should be

recognized that security badges are Government property and any alteration or misuse of these badges may be prosecuted as a violation of Section 499, Title 18, U.S. Code.

II. NASA-OWNED PROPERTY

1. The term "NASA-Owned Property" refers to all controlled (tagged) and non-tagged equipment, library property, security badges, computer passwords and other property furnished by the Government during the course of the contract.

2. The Contractor shall ensure that all NASA-Owned property issued to its employees is returned and in satisfactory condition upon termination of an employee's duties. In cases where accountability for the property is transferred from one employee to another, the NASA Equipment Management System (NEMS) Control office of the Logistics Management Division must be notified. At the completion of the Government contract, all property will be returned, and the contract value will be adjusted for any property not accounted for.

3. When access to Federal computer systems has been granted, the Contractor shall ensure that its employees comply with the clause of the contract entitled "SECURITY REQUIREMENTS FOR UNCLASSIFIED INFORMATION RESOURCES (NFS 1852.204-76)".

III. EMERGENCIES

1. The Contractor shall ensure that its employees are informed that Emergency, Fire, Medical, Safety, and Security assistance can be summoned by Dialing "911" on the Center's PABX telephone system. Emergencies are defined as incidents involving serious personal injury or damage that causes a possible hazardous condition, or any incidents that require immediate attention of the Plant Protection Department or Security. All other medical treatment is the responsibility of the Contractor.

2. For incidents not classified as an emergency, contractor personnel shall be instructed to immediately notify the Contracting Officer's Technical Representative (COTR)(rather than dialing "911") in the event of an accident involving either personal injury or damage to property whether public or private, including damage to motor vehicles. They shall cooperate fully with the Government Accident Investigator and the Center Accident Investigation Board. This cooperation shall include interviews at the accident site and/or at a Board meeting.

3. The Chairman of the appropriate Accident Investigation Board will notify the Contractor through the COTR as to the date and time and location of the Board meeting. The Board meetings will be held between the hours of 8:15 a.m. and 4:45 p.m. regular work days Monday through Friday.

4. For Contractor duties where continuous manning of posts is mandatory during a work shift, the Contractor shall provide substitute personnel as required for manning these posts during the meeting of the Accident Investigation Boards.

IV. TRAFFIC

1. The Contractor agrees to comply, and agrees to require that all of its personnel will comply with all posted traffic signs, signals and instructions of personnel assigned for traffic control and parking purposes and with the provisions of NPD 1600.2 and NHB 1620.1 incorporated herein by reference and made a part hereof.

2. The Government reserves the right to bar from the Glenn Research Center any Contractor employee who has failed to comply with such signs, signals, instructions and the provisions of NPD 1600.2 and NHB 1620.1. The period of the bar shall be as determined appropriate by the Contracting Officer subject to the provisions of NPD 1600.2 and NHB 1620.1. The Contracting Officer will notify the Contractor in writing, setting forth the name(s) of the affected employees(s) and the time period(s) of the bar(s). No action by the Government in barring any Contractor employee from the Glenn Research Center shall be the basis for any claim whatever by the Contractor under this contract, nor shall it excuse the Contractor from complying with any provision of this contract.

V. ON-SITE STANDARDS OF CONDUCT

1. The Contractor's entry onto the Center shall be pursuant to fulfilling its contractual obligations, and any related activities thereto. Contractor personnel gaining access to Glenn facilities are required to certify that they meet the minimum ethical standards for entry onto a Government facility. Falsification of this certification could lead to criminal prosecution.

2. The Contractor agrees to comply, and agrees to require that all of its personnel will comply with all applicable Federal and State statutes and regulations, NASA policy and guidance documents, Glenn policy and guidance documents, and other regulations pertaining to personal conduct while on-site. Any conduct prejudicial to the efficient operation of the Center shall be cause for removal from the Center.

VI. PROHIBITION OF FIREARMS

Firearms or weapons of any kind are strictly prohibited at the Glenn Research Center.

VII. SECURITY INCIDENTS

Theft of Property, Bomb threats, malicious damage and any other threat or violent situations shall be immediately reported to the Security Office.

VIII. PROPERTY PASSES

A Contractor Property Pass (NASA Form C-702) is required for the removal of all Contractor owned property and equipment and must be presented to the gate guard upon exit. This form can be obtained from the COTR (or designee) or the Glenn employee responsible for the Contractor's presence at the Center. This form must contain a complete description of the material/equipment being removed and should be signed by the authorized Government employee. Material relating to a specific contract or purchase order must be identified by insertion of the appropriate contract/purchase order number on the pass by the COTR or designee.

IX. AFTER-HOUR ACCESS

During normal working hours, 7:00 a.m. to 5:30 p.m. Monday through Friday, the guards at the gates will permit your entrance and departure. At any other time (other than normal hours), advance clearance is required, and may be obtained through the Glenn/Plum Brook COTR or Inspector who will then make the request to the Main Gate Sergeant PABX 3-2204 at Glenn and 3-3221 at Plum Brook. After-hour clearances as approved by the COTR Inspector are certification to the guards as authority for admittance of a contractor during off hours, including Saturdays, Sundays, and Holidays.

X. CONTRACTOR IDENTIFICATION

To avoid situations whereby the actions of onsite contractor employees can be construed as that of Government officials, the onsite contractor shall take the following actions:

(1) Insure that employees properly display their badge at all times.

(2) Institute a policy whereby employees who, in their normal course of duties, answer telephone inquiries, participate inmeetings with Government and other contractor personnel or deal with the general public appropriately identify themselves so their actions cannot be construed as that of Government officials.

(3) Institute a policy whereby business correspondence, including emails and memoranda, includes the name of the company in the signature line. Use company letterhead for internal company matters and letters/memos signed by company personnel.

(4) For onsite office space primarily occupied by company personnel, clearly indicate on the exterior of the office space the company name.

(End of clause)

**10. DETERMINATIONS OF WAGE REASONABLENESS DURING CONTRACT PERFORMANCE AND PRIOR TO EXERCISE OF OPTIONS (GRC 52.215-112) (SEP 2001)**

(a) The contractor must notify the Contracting Officer (CO) at any time during the performance of this contract when a general wage increase is contemplated for any groups of their employees.

(b) Prior to any preliminary notice of the Government's intent to exercise an option, the CO will request that the Contractor provide either: (1) A comparison of the anticipated wages for the option period against the recent versions of the surveys used to prepare the original proposal and an explanation of any anticipated wages in excess of those expected during the negotiation of the original contract, or (2) A signed statement that all wages planned to be paid during the option period will be no greater than those required by the applicable Wage Determination(s).

**11. REPORTS OF WORK**

The following clause describes those types of plans/reports required under this

A. FOB POINT FOR ALL REPORTS

All reports shall be delivered FOB Destination to the recipients of those reports. The Contractor is solely responsible for assuring that delivery is made to every specific recipient named (that is, the Contractor shall not ship multiple copies to one recipient with the expectation that those reports will then be distributed to other named recipients).

B. SMALL BUSINESS REPORTS

If this contract includes FAR clause 52.219-9, quarterly and annual Small Business Subcontracting Reports (SF294 and SF295) are required.

C. WRITTEN REPORTS shall be brief, factual and informal. They shall be prepared as set forth below:

(a) A cover page containing:

(1) Contract number and title.

(2) The type of report ("Monthly Technical Progress Report", "Task Report", "Quarterly Narrative Report", etc.), sequence number of the report (when applicable), and the period/unit being reported.

(3) Contractor's name, address, and organizational segment generating the report.

(4) Signature of Contractor's cognizant Project Manager (or, if submitted electronically, an unambiguous indicator that the Project Manager has generated/reviewed the report)

(5) Date of issuance.

(6) Inclusion of the following statement: "Prepared for NASA Glenn Research Center, Cleveland, OH 44135."

(b) Section I -- Technical Progress Summary: A description of the work performed during the report period and the overall technical progress achieved. The current schedule status shall also be addressed in this summary.

(c) Section II -- Current Problem(s): A description of any current problem(s) which may impede technical, schedule and/or cost performance, along with proposed corrective action(s). Include an explanation of how the problems could affect the cost and schedule of the reporting categories in the financial and scheduler reports if applicable, as well as the effects at the total contract level.

(d) Section III -- Risk Management: Include a list of Significant Open Risks and associated Mitigation Plans. Significant Open Risks are those that have the potential to affect major development milestones & goals, such as a delivery delay, a design-freeze date, a cost ceiling, a safety or health concern, environmental impacts, a technical trade-off decision, etc. Further guidance, if needed, is available from the GRC Risk Management reference documents (listed below), which are available at the following web-sites:

(1) NPG 7120.5A -- "Program and Project Management Processes and Requirements", Chapter 4 -- "Program/Project Management Systems Requirements" http://nodis3.gsfc.nasa.gov/library/lib_docs.cfm?range=7___ (note: the FOUR "blank" spaces in the above address are actually "underline" marks)

(2) GRC-P2.9 -- "Risk Management" http://nasalivelink.grc.nasa.gov/livelink/livelink?func=ll&objId=241550&objAction=browsebmsfolder&sort=documentnumber

(e) Section IV -- Work Planned: A description of the work to be performed during the next monthly reporting period.

(f) Section V -- Analysis: Interpretation of the results obtained, recommendations of further action, and discussion of the relationships between work performed and the ultimate objectives of the contract. Applicable diagrams, sketches, graphs, photographs, and drawings should be included, if they assist in conveying the intended meaning of this Section. The COTR may waive this Section IV requirement on a month-by-month basis.

(3) Report Period, Dates and Submission

(a) Periodic Reports (Weekly, Monthly, Quarterly, etc.)

(1) The report shall reflect a period of performance comparable/traceable to the Contractor's accounting period (such as, an accounting month), from the beginning date to the cutoff (closing) date. NOTE: The initial reporting period depends on the date of contract award and may be less or more than a full Contractor's accounting period. When the date of contract award is before the middle of the Contractor's accounting period, the initial reporting period shall be from the date of award to the end of that same accounting period. When the date of contract award is on or after the middle of the Contractor's accounting period, the initial reporting period shall be from the date of award through the end of the following accounting period. Thereafter, each reporting period shall incorporate one complete Contractor's accounting period.

(2) The report shall reflect actual progress through the cutoff date. The following report of the same type will begin on the day after the previous period's cutoff date, so that the reporting periods are continuous and uninterrupted.

(3) Within ten (10) working days after the cutoff date, the Contractor shall submit the report electronically to the addresses indicated in clause GRC 52.227-104 of this contract, entitled "Document Distribution Requirements".

**12. FINANCIAL MANAGEMENT REPORTS**

(1) The Contractor shall submit the following financial reports pursuant to clause NFS 1852.242-73, "NASA Contractor Financial Management Reporting":

(a) NASA Form 533M (Monthly Contractor Financial Management Report)

Upon written request, the Contracting Officer may authorize an alternative format that provides substantially the same level of detail as the required Form 533(s), but is more compatible with the Contractor's standard accounting/reporting format.

(3) The Reporting Categories of the Financial Reports are:

i. Direct Labor Categories/Rates/Hours

ii. Other Indirect Dollars

iii. Materials/Supplies Dollars

iv. Other Direct Cost Dollars

v. Other profit/fee

(4) Within ten (10) working days after the cutoff date, the Financial Report(s) shall be submitted in the number of copies and to the addresses indicated in the "Document Distribution Requirements".

(5) Preparation

The required report(s) shall be prepared in accordance with the instructions contained in the aforementioned clause, NPG 9501.2 (NASA Contractor Financial Management Reporting) and on the reverse of the forms. The Internet address for NPG 9501.2 is http://www.hq.nasa.gov/office/codeb/npg95012.htm.

(6) Report Periods, Dates and Submission

(a) The cutoff date to be used for all 533 reports is the closing date of the Contractor's accounting month that has just been completed.

(b) The first 533M report shall be submitted within thirty (30) calendar days after incurrence of cost and, as with all subsequent 533M reports, is due not later than the tenth working day of the month after the close of the Contractor's accounting month. The regular 533Q report (which is a PLANNING report) shall be submitted not later than the tenth (10th) working day of the month preceding the quarter being reported.

(c) The 533 report(s) shall be submitted electronically and in hardcopy format as indicated in clause GRC 52.227-104 of this contract, entitled "Document Distribution Requirements".

(7) IF the value of this contract (including options, whether exercised or unexercised) EXCEEDS $1 MILLION, and the Contractor is submitting Financial Reports that provide both actual expenditures from past months and estimated expenditures for current/future months, THEN the Contractor shall provide a short explanation (approximately one sentence) of any variance WHICH EXCEEDS 5%, between a previous estimated month-specific expenditure and the actual expenditure experienced. [Example: The March 533M states that Actuals for March were $80K and Planned expenditures for April are $100K. The April 533M states that Actuals for April were $92K, which is a variance of 8% (from the "March Planned" number of $100K). A short explanation -- "widget prices were unusually low" -- is required.]

(8) IF THIS IS A TASK ORDER CONTRACT, the Contractor is required to submit one set of monthly Financial Reports that summarize the entire contract at the Task Order Level (total hours/dollars per Task Order), and to submit a second set of monthly Financial Reports that address the individual reporting categories identified in item (2) of this Section H, above, for each active Task Order.

I. ELECTRONIC SUBMISSIONS.

The government encourages electronic submittal of all reports, except that at least one copy of each financial report must be a signed hardcopy. The signed hardcopy may be received no later than 20 working days after the close of the report period, so long as the electronic copy was provided within 10 working days after the close of the report period. (If the Contractor submits its financial report with an electronic signature, a signed hardcopy is not required.) All other reports, unless elsewhere noted, may be submitted by e-mail, or via the Internet, or by some other electronic method, in lieu of a hardcopy. Dedicated Web-Sites, accessible via password and updated by the Contractor, are acceptable reporting tools for Technical Progress Narratives (See Section B, above) and the Draft Final Report, if compatible with the current NASA Glenn Research Center hardware/software and authorized by the COTR. CD/disc submittals are acceptable reporting tools for Technical Progress Narratives (See Section B, above) and the Draft Final Report, if compatible with the current NASA Glenn Research Center hardware/software and authorized by the COTR.

13. OBSERVANCE OF LEGAL HOLIDAYS (NFS 1852.242-72) (AUG 1992)
(ALTERNATE II) (OCT 2000)

(a) The on-site Government personnel observe the following
holidays: New Year's Day, Labor Day, Martin Luther King Jr.'s Birthday, Columbus Day, President's Day, Veterans Day, Memorial Day, Thanksgiving Day, Independence Day, Christmas Day

Any other day designated by Federal statute, Executive order, or the President's proclamation.

(b) When any holiday falls on a Saturday, the preceding Friday is observed. When any holiday falls on a Sunday, the following Monday is observed. Observance of such days by Government personnel shall not by itself be cause for an additional period of performance or entitlement of compensation except as set forth
within the contract.

(c) When the NASA installation grants administrative leave to its Government employees (e.g., as a result of inclement weather, potentially hazardous conditions, or other special circumstances), Contractor personnel working on-site should also be dismissed. However, the contractor shall provide sufficient
on-site personnel to perform round-the-clock requirements of critical work already in process, unless otherwise instructed by the Contracting Officer or authorized representative.

(d) Whenever administrative leave is granted to Contractor personnel pursuant to paragraph (c) of this clause, it shall be without loss to the Contractor. The cost of salaries and wages to the Contractor for the period of any such excused absence shall be a reimbursable item of cost under this contract for employees
in accordance with the Contractor's established accounting policy.

(End of clause)

## 14. APPROVAL OF RELEASE OF TECHNICAL INFORMATION

The public release of any unclassified technical data first produced in the performance of this contract must be approved in advance by the NASA Project Manager/COTR. An advance copy of any abstract, paper, or presentation must be forwarded to the NASA Project Manager/COTR at least six (6) weeks before its proposed release. No public presentation or publication of this information may be made without the specific written approval of the NASA Project Manager/COTR. Any questions concerning classified data should be directed to the Glenn Security Classification Officer, with notification to the COTR and the Contracting Officer. The Final Report shall not be released outside NASA until the NASA DAA review has been completed (See Section K, Final Report, above) and the availability of the document has been determined. The Final Report is considered available when it is accessible through CASI (See Clause NFS 1852.235-70).

## 15. DOCUMENT DISTRIBUTION REQUIREMENTS (GRC 52.227-104) (JAN 2002)

(a) Reports and other documentation shall be submitted prepaid to the recipients specified below, addressed as follows:

National Aeronautics and Space Administration
Glenn Research Center
ATTN: _____, Mail Stop_____ [AS SPECIFIED BELOW]
Contract NAS 3- _____
Cleveland, OH 44135

(b) The following list designates the recipients of reports and other documentation which are required to be delivered to the Glenn Research Center by the Contractor.

| | |
|---|---|
| NASA Contracting Officer (CO) | MS _____ |
| Small Business Officer (SBO) | MS 500-305 |
| Technology Utilization Office (TU) | MS 7-3 |
| Office of Safety and Assurance Technology (OSAT) | MS 501-4 |
| Financial Management Division (FMD) | MS 500-303 |
| NASA Contracting Officer's Technical Representative (COTR) | MS _____ |
| Center for Aerospace Information (CASI) | Parkway Center<br>7121 Standard Drive<br>Hanover, MD 21076-1320 |

*[Distribution to CASI is limited to contracts that contain Clause 1852.235-70]*

(c) The following table indicates the type and number of reports and other documentation to be submitted to each recipient.

| | CO | SBO | TU | OSAT | FMD | COTR | CASI |
|---|---|---|---|---|---|---|---|
| Work Plan | | | | 1 | | 1 | |
| Product Assurance Plan | 1 | | | 1 | | 1 | |
| New Technology Reports | 1 | | 1 | | | 1 | |
| Small Business Reports | 1 | 1 | | | | | |
| Costing Run-out Reports | 1 | | | | 1 | 1 | |
| Technical Progress Reports | 1 | | | | | 1 | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Task Order Summary Narrative | 1 | | | | | 1 | |
| Financial Management (533) Reports | 1 | | | 1 | 1 | 1 | |
| Any Other Reports or Requests Requiring Contractor's Signature | 1 | | | | | 1 | |
| Draft Final Report | | | | | | 1 | |
| Final Report | 1 | | 1 | | | 4 | 1 |

**16. SUBMISSION OF VOUCHERS OR INVOICES FOR PAYMENT - TASK ORDER CONTRACT (GRC 52.232-106) (APR 1998)**

(a) All vouchers or invoices submitted for payment shall include a reference to the number of this contract.

(b) All vouchers or invoices submitted for payment SHALL IDENTIFY ALL COST FOR EACH TASK ORDER AS A SEPARATE ITEM.

(c) Invoices for Fixed-Price Task Orders (as applicable). The original invoice and three copies shall be submitted to:

NASA Glenn Research Center
Commercial Accounts
Mail Stop 500-303
21000 Brookpark Road
Cleveland, OH 44135

This is the designated billing office for fixed-price invoices for purposes of the Prompt Payment clause of this contract.

(d) Vouchers for Time & Materials, Labor-Hour, or Cost Reimbursement Task Orders (as applicable). The designated billing office for cost vouchers for purposes of the Prompt Payment clause of this contract is indicated in paragraph (d)(1) or (d)(2) below, whichever is applicable.

(e) If the contractor is authorized to submit interim cost vouchers directly to the NASA paying office, they shall be prepared in accordance with paragraph (d)(2) below and submitted to:

NASA Glenn Research Center
Commercial Accounts
Mail Stop 500-303
21000 Brookpark Road
Cleveland, OH 44135

(i) For any period that the Defense Contract Audit Agency has authorized the Contractor to submit interim vouchers directly to the Government paying office, interim vouchers are not required to be sent to the Auditor, and are considered to be provisionally approved for payment, subject to final audit.

(ii) Copies of vouchers should be submitted as follows:

Copy 1 - NASA Contracting Officer

Copy 2 - DCAA Auditor

Copy 3 - Contractor

Copy 4 - Contract Administration Office, if delegated

Copy 5 - GRC Project Manager

(f) If the contractor is not authorized to submit interim cost vouchers directly to the paying office as described in paragraph (b), the contractor shall prepare and submit vouchers as follows:

(i) One original Standard Form (SF) 1034, SF 1035 or equivalent Contractor's attachment to the cognizant DCAA office.

(ii) Five copies of SF 1034, SF 1035A or equivalent Contractor's attachment to the following offices by insertion in the memorandum block of their names and addresses:

Copy 1 - NASA Contracting Officer

Copy 2 - DCAA Auditor

Copy 3 - Contractor

Copy 4 - Contract Administration Office, if delegated

Copy 5 - GRC Project Manager

(iii) The Contracting Officer may designate other recipients as required.

(g) Vouchers for payment of fee shall be prepared similarly to the procedure in paragraph (d)(2) of this clause and be forwarded to:

NASA Glenn Lewis Research Center
Commercial Accounts
Mail Stop 500-303
21000 Brookpark Road
Cleveland, OH 44135

This is the designated billing office for fee vouchers for purposes of the Prompt Payment clause of this contract.

In the event that amounts are withheld from payment in accordance with provisions of this contract, a separate voucher or invoice for the amount withheld will be required before payment for that amount may be made.

**17. CONTRACTING OFFICER'S TECHNICAL REPRESENTATIVE (COTR) - TASK ORDER CONTRACTS (GRC 52.242-93) (AUG 2002)**

(a) A Contracting Officer's Technical Representative (COTR) will be delegated under this contract pursuant to the clause at NFS 1852.242-70 entitled "Technical Direction". The contractor will receive a copy of this delegation at the time of award of any contract or shortly thereafter. This delegation will take place on a NASA Form 1634 and will list not only the COTR delegated, but also his/her duties and responsiblities. Throughout this solicitation/contract there may be references made to a variety of different titles, including "NASA Project Manager", NASA Technical Monitor", and "NASA Contract Monitor"; unless specifically stated otherwise, these refer to the COTR.

(b) A Task Manager other than the COTR may be assigned on any task order issued under this contract. Any such task manager has overall responsibility for the technical effort under the task order. Task Managers are not, however, authorized to make technical directions or perform any other duties or responsibilities as may be delegated to the COTR, or retained by the Contracting Officer.

**18. SOLICITATION PROVISIONS INCORPORATED BY REFERENCE (FAR 52.252-1) (JUN 1988)**

This solicitation incorporates one or more solicitation provisions by reference, with the same force and effect as if they were given in full text. Also, the full text of a clause may be accessed electronically at this/these address:

http://www.arnet.gov/far/
http://www.hq.nasa.gov/office/procurement/regs/nfstoc.htm

I. THE OFFEROR'S

II. THE GOVERNMENT INCORPORATES THE FOLLOWING FEDERAL ACQUISITION REGULATION (48 CFR CHAPTER 1) WHICH ARE NOT INCORPORATED IN I.

| CLAUSE NUMBER | DATE | TITLE |
|---|---|---|
| 52.204-3 | OCT 1998 | TAXPAYER IDENTIFICATION |
| 52.217-8 | Nov 1999 | OPTION TO EXTEND SERVICES |
| 52.217-9 | MAR 2000 | OPTION TO EXTEND THE TERM OF THE CONTRACT |
| 52.222-44 | MAY 1989 | FAIR LABOR STANDARDS ACT AND SERVICE CONTRACT ACT-PRICE ADJUSTMENT (MULTIPLE YEAR AND OPTIONS CONTRACTS) |
| | | |
| 52.232-9 | APR 1984 | LIMITATION ON WITHHOLDING OF PAYMENTS |
| 52.232-33 | May 1999 | PAYMENT BY ELECTRONIC FUNDS TRANSFER |
| 52.244-2 | OCT 1998 | SUBCONTRACTS (FIXED-PRICE CONTRACTS |
| 52.244-5 | DEC 1996 | COMPETITION IN SUBCONTRACTING |

III. NASA/FAR SUPPLEMENT (48 CFR CHAPTER 18) CLAUSES

| | | |
|---|---|---|
| 1852.203-70 | JUN 2001 | DISPLAY OF INSPECTOR GENERAL HOTLINE POSTERS |
| 1852.204-74 | OCT 2001 | CENTRAL CONTRACTOR REGISTRATION |
| 1852.204-76 | JUL 2001 | SECURITY REQUIREMENTS FOR UNCLASSIFIED INFORMATION TECHNOLOGY RESOURCES |
| 1852.204-70 | DEC 1988 | LIMITATION OFFUTURE CONTRACTING |
| 18-52.209-72 | DEC 1988 | COMPOSITION OF THE CONTRACTOR |
| 1852.216-89 | JUL 1997 | ASSIGNMENT AND RELEASE FORMS |
| 1852.219-74 | SEP 1990 | USE OF RURAL AREA SMALL BUSINESSES |
| 1852.219-76 | JUL 1997 | NASA 8 PERCENT GOAL |
| 1852.223-70 | MAY 2001 | SAFETY AND HEALTH |
| 1852.223-73 | May 2001 | SAFETY AND HEALTH PLAN |
| 1852.223-75 | MAY 2001 | MAJOR BREACH OF SAFETY OR SECURITY |
| 1852-223-74 | MAR 1996 | DRUG- AND ALCOHOL-FREE WORKFORCE |
| 18-52.237-70 | DEC 1988 | EMERGENCY EVACUATION PROCEDURES |
| 18-52.242-70 | SEPT 93 | TECHNICAL DIRECTION |
| 1852.243-71 | MAR 1997 | SHARED SAVINGS |
| 1852.242-73 | JUL 2000 | NASA Contractor Financial Management Reporting |

ENCLOSURE a

Statement of Work

For

Professional, Administrative, Computational, and Engineering Services II
(PACE II)

## 1.0 PURPOSE

This Statement of Work defines the requirements for performance-based technical tasks to assist the NASA Glenn Research Center (GRC) in meeting the objectives of its research, development, and administrative activities. These requirements include, but are not limited to, technical tasks in the areas of computer science, computer and software engineering, and related science and technology.

## 2.0 SCOPE

The Contractor shall perform Information Technology (IT) engineering, scientific, technical, administrative, and related tasks issued hereunder by the Contracting Officer (CO), or the CO's authorized representative. These activities fall into broad categories as outlined below in 2.1 - 2.6, but need not be limited to the activities noted. Individual task order requirements may involve any or all categories of activities.

In addition, within the scope of this Statement of Work, these performance-based tasks will require either:

a) Application of the specialized skills of a single individual;

b) A well-defined, multi-disciplined effort;

c) Or a well-defined, multi-disciplined effort with tasks that require close integration with tasks performed by NASA personnel to comprehensively address all facets of a complex research or technical program.

For each task the Contractor will also be responsible for estimating costs, establishing budgets, developing a major milestone schedule, monitoring actual progress against plan, identifying problems, and taking appropriate corrective action. These responsibilities are in addition to the actual execution of the technical requirements. (Scope of Contract - Task order Contract - GRC52.216-98)(SEP 1992)

Tasks will encompass the broad scope of mission responsibilities at the GRC, and include: research and technology, software engineering design and development, computer engineering design and development, operations, security, and administration/management.

### 2.1 Business Systems and Applications

Provide business solutions for administrative functions including NASA-wide and local applications. Provide software engineering, database management, data entry, production control, and secure access support. Provide full life cycle support for GRC-specific applications including easy-to-use query tools for access to functional data. Maintain interfaces (including critical required changes) with NASA-wide applications, and design and implement bridges to local applications.

2.2 Computational Scientific Services

Maintain facilities and testbeds for exploring, developing, and utilizing advanced technologies including cutting edge network and computing systems. Provide unique hardware integration and specific system administration utilizing specialized programming techniques. Provide testbed and program development support in coordination with the milestones of the Computing, Information, and Communications Technologies Program (CICT).

Provide support for the development of scientific and engineering applications. Included in this support are activities such as the development scientific visualization tools and techniques; maintenance of a state-of-the-art visualization and multimedia lab; development system analysis software for aeronautic propulsion systems; development of computational methods for model simulation and data analysis; development of large-scale software packages in support of scientific and engineering missions; modernization of existing, critical software applications; adaptation of advanced technologies to enhance educational methods and to provide education and public awareness in aeronautics and space science; and attendance and participation in technical conferences and trade shows.

2.3 Advanced Networking Systems and Technologies Development Support

Provide communications and networking technology development, engineering, design, and integration services in support of NASA GRC's operational and research-oriented networking programs and test facilities. Provide advanced network security support including operating and maintaining a robust firewall environment, monitoring firewall traffic, responding to threats and working with customers to meet changing requirements.

Assist NASA in providing secure, next generation networks (LAN's and WAN's) capable of supporting high performance applications and collaborative computing initiatives in support of GRC's key role in fostering the development of new satellite, wireless, and hybrid communications technologies on behalf of both NASA and U. S. industry.

Assist NASA in providing IT security programmatic support to Center organizations including assessment of threats, vulnerabilities and risks, and assisting management in finding cost-effective solutions to mitigate unacceptable risk.

2.4 Facility Support

Provide data acquisition, transfer, and output services using dedicated steady-state, real-time data acquisition and display systems for 50 plus open, limited access, or classified experimental test facilities at Glenn or Plumbrook Station. Provide hardware/software installation and removal, preventative maintenance and calibration, remedial maintenance, hardware configuration management, operations, software configuration management, data backups and recovery, software maintenance, engineering revision maintenance, specialized system administration, and specialized application development. Coordinate professional and technician groups supporting testing operations.

Procure and track software and hardware and/or software and hardware maintenance agreements or licenses for a variety of computer platforms as required.

Provide on-site operations and maintenance support for remote business (data) systems.

Provide operations and maintenance support for the video conferencing facilities.

2.5 Emerging Technology Application

Perform analysis functions and reporting directly aligned with the Glenn Chief Information Officer (CIO) and the corresponding "One NASA' initiatives for which GRC has responsibilities related to Information Technology (IT). Analysis and reporting examples include: IT investment planning; cost analysis; Enterprise architecture formulation; standards suitability evaluation; benchmarking; and life cycle analysis. Perform market research and testing of emerging technology. Develop technical assessments for insertion of emerging technology into the NASA IT architecture. Support pathfinding activities such as prototyping, proof of concept, and limited production environments.

Provide a walk-in IT reference center with resource materials and online search services appropriate to the Glenn Information Services Division (ISD) activities, products, and services. Provide full range of documentation support for scientific and engineering requirements as well as for business requirements.

Provide system administration support for a core suite of Knowledge Management and centralized web software products. Perform internal marketing and requirements analysis for deployment and implementation of core Knowledge Management products supported and investigated by ISD/NASA. Provide information to NASA Center and Agency workgroups using the Knowledge Management and centralized web products to enhance efficient use of the products.

Provide system administration and customer support for a core suite of team and enterprise Collaboration software products. Perform requirements analysis for deployment and implementation of core Collaboration software products supported and investigated by ISD/NASA. Provide information and/or specialized Glenn training to Center and Agency workgroups using the Collaboration software to enhance efficient use of the products.

Provide system administration and customer support for a core suite of desktop and enterprise Project Management decision support applications/products. Perform internal marketing and requirements gathering and analysis for deployment and implementation of core Project Management products supported and investigated by ISD/NASA. Provide information and reports to NASA Center and Agency workgroups using the Project Management products to enhance efficient use of the products.

2.6 Administrative/Management

The following requirements apply in total or in part to sections 2.1 through 2.5.

Plan projects including requirements estimates, schedules, and progress evaluations. Develop and maintain record keeping systems, documentation, and schedules. Conduct or participate in workshops, symposiums, and conferences. Prepare management information reports. Prepare technical presentation material. Edit reports and documentation for publication.

3.0 Specific Work Requirements

The work shall be accomplished at GRC. In case of growth, some work may need to be performed offsite. Travel to other locations may be required. Task orders will provide the availability of Government facilities, laboratories, equipment, and support services.

All work performed under this contract shall be in accordance with established and applicable GRC documents and GRC ISO procedures for requirements, standards, specifications, and instructions such as environmental impact statements, safety, reliability, quality assurance, security, and engineering standards.

Listed below are typical work areas to be performed under this contract. The list is not all-inclusive and the Government reserves the right to require the performance of work considered within 2.0 "Scope". The Government will issue specific task orders following selection. It should be recognized that the Government reserves the right to issue tasks for any or all of the scope of work indicated in this statement of work. There is no guarantee that specific tasks will be written for all elements listed below.

The following work requirements are not listed in priority order and no significance should be implied by their relative position in this document. Some requirements are more easily explained or documented in a brief format and others have been described more fully. No assumptions regarding the size or importance of the effort should be made based on these work requirements. Section 5E Cost analysis and Discounts of the RFQ provides a better indication of the size of the potential effort.

3.1 Business Systems and Applications

3.1.1 Provide Database Administrative Services for existing and future Glenn Mainframe and Client/Server business application databases during all phases of the software development life cycle.
3.1.2 Provide problem diagnosis, repair, fixes, preventive maintenance services, upgrades, planning, documentation, and overall support for development, test, and production environments.

3.1.3. Provide Software Development Life Cycle support for Business Applications including requirements analysis, creation/modification of data models, establishment of data and database structures, table development/modification, and security.

3.1.4 Provide installation, support, and maintenance of Business Application software development tools to provide a standardized application development suite to the development team. Provide tools to support the mainframe, client/server, web, and web/database environments as well as software configuration management capabilities.

3.1.5 Monitor NASA ADP Consolidation Center (NACC) network, high-speed laser printers, microfiche printer, high-speed Xerox printer. Prepare and distribute reports from printers; and maintain high-speed laser printers and supplies for those printers.

3.1.6 Provide general Multiple Virtual Storage (MVS) System support by complementing the primary support staff of the NACC in conformance with GRC-NACC Memorandum of Understanding (MOU). Provide a Primary Point of Contact (POC) for the MOU, disaster recovery support, upgrade and outage planning, support of software installation and maintenance for Glenn unique software or other software required in the Glenn Logical Partition (LPAR), and MVS problem resolution. Support the local Configuration Control meetings and other meetings concerning the Glenn LPAR.

3.1.7 Provide MVS Customer Information Control System (CICS) support to the Glenn LPAR as defined in the MOU to include problem resolution, assisting in software upgrades, and performance monitoring.

3.1.8 Provide MVS Security Services including maintenance of security structures, maintenance and management of security software such as Resource Access Control Facility (RACF), serve as the Glenn MVS security software contact for external audits, security system compliance, establishment and maintenance of the security database, as well as MVS systems records analysis for security violations.

3.1.9 Provide Production Control and Data Entry Support services during prime shift and certain peak business data processing cycles. Services include but are not limited to maintenance of mainframe job control language for scheduled job submission, support to all production applications slated for client/Server migration, and other NASA-wide Sustaining Engineering Support for Agency-wide Administrative Systems (SESAAS) software support requirements.

3.1.10 Provide software application support for NASA-wide SESASS applications. Provide support and maintenance of business applications during normal hours, during critical deadline processing; for migration of selected applications to Client/Server environment or replacement by the Integrated Financial Management Program (IFMP); changes mandated by governmental regulatory requirements or other scheduled releases/upgrades. Maintain existing mainframe applications in their existing environment.

3.1.11 Maintain existing Client/Server applications in their existing environment. Modify existing Client/Server applications to accomplish customer driven requirements documentation and schedules in the areas such as Financial, Procurement, Human Resources, Security, Safety, Aeronautics, Environmental, Logistics, and Telecommunications.

3.1.12 Maintain existing PC database applications as described in customer requirements documentation and schedules in the areas such as Financial, Procurement, Human Resources, Security, Safety, Aeronautics, Environmental, Logistics and Telecommunications.

3.1.13 Maintain existing web/database applications as described in customer requirement documentation and schedules in the areas such as Financial, Procurement, Human Resources, Security, Safety, Aeronautics, Environmental, Logistics, and Telecommunications.

3.1.14 Provide support for the transition, integration, and maintenance to the NASA-wide IFMP to include but not limited to: data analysis, data mapping, approved interfaces, data conversion, and documentation.

3.1.15 Develop data extract to support IFMP integration.

3.2 Computational Scientific Services

3.2.1 Perform specialized system maintenance duties in the High Performance Computing (HPC) environment that is designed as a supercomputing alternative to assist the Center's programs in meeting their objectives and milestones. The HPC area is divided into two distinct, production and testbed, computing environments.

3.2.2 Perform backups, userid support, monitor system utilization and ensure that all the systems software and applications are functioning properly. Perform the installation, testing, and maintenance of platform specific software on both the production systems as well as the testbed systems. Provide these services for operating systems, compilers, parallel software tools, and software tools designed for the specific purpose of system integration across production and testbed systems alike.

3.2.3 Monitor all production and testbed systems for optimal performance. Tune systems accordingly to achieve necessary gains in processor utilization and disk and network I/O.

3.2.4 Provide accounting and metrics configuration, collection, and reporting for all of the HPC systems.

3.2.5 Provide the installation, testing, user support, and maintenance of job scheduling and computational grid tools on all the HPC systems.

3.2.6 Provide the installation, testing, user support and maintenance of the parallel application software and tools on all the HPC systems.

3.2.7 Provide high-end network connectivity which will generate the I/O throughput that is required for parallel and large code development on HPC systems. Emphasis on throughput shall be placed on the testbed networks. Consideration to improved networked capabilities shall be given to the production systems once the network technology has been proven. Testing of the latest networking capabilities shall be limited to the testbed systems.

3.2.8 Provide system integration support between HPC productions systems and designated testbed systems. Maintain a common home directory layout, appropriate network interface configuration, yellow pages/NIS/NIS+ (Network Information Services) and NFS (Network File System) configuration and maintenance.

3.2.9 Provide user support in parallel code compiling and parallel application runtime support across all systems in the HPC environment

3.2.10 Resolve user problems and questions regarding the production systems, testbed systems, and job scheduling and computational grid tools. Address inquiries and additional requests for specialized reports regarding the accounting and metrics configurations on the production and testbed systems, as well as the appropriate clustered computing environments located across the lab.

3.2.11 Address generally defined HPC problems or functional requirements by developing alternative technically acceptable solutions, indicating potential policy and/or operational issues, preparing implementation plans, and preparing status/procedural reports on the work in progress on the defined task.

3.2.12 Maintain an external Web based information site for the high performance testbed systems. Include information on account reports, system configuration, user documentation, supported software, networking configuration, computational grid user guides and examples, and supported parallel tools including appropriate user guides and examples.

3.2.13 Maintain an external Web-based information site for the HPC production systems. Include information on system configuration, user documentation, supported software including job scheduling user guides and examples, networking configuration, and supported parallel tools including appropriate user guides and examples.

3.2.14 Provide user and administrative documentation for the production and testbed systems in the HPC environment. Document all procedures involved with the installation, testing, and deployment of hardware and software upgrades, hardware installation, accounting configuration, networking configuration, and parallel environment support for the production and testbed systems. Provide user and administrative documentation for the job scheduling and computational grid environment on all HPC systems.

3.2.15 Provide integration support for the Computing, Information, and Communications Technologies Program (CICT) testbeds into the Code R Phase II Metacenter environment (Silicon Graphics Inc. [SGI] Origin clustered workstations located at GRC, Ames Research Center [ARC], and Langley Research Center [LaRC]). Maintain a common home directory layout, appropriate high-end network interface configuration across Code R centers, yellow pages/NIS/NIS+ and NFS configuration and maintenance. Coordinate system software upgrades and parallel application support between the Code R systems.

3.2.16 For each Numerical Propulsion Simulation System (NPSS) version, develop requirement definition and translate these requirements by object oriented analysis and design to implementation of the code, concentrating on the infrastructure. Provide both unit and system code testing. Employ software development methodology that involves full computer engineering verification and validation procedures. Responsible for oversight of all of the NPSS Object Class infrastructure and implementation of the NPSS engineering language translator that is the primary interface for programming engine cycle simulations. The simulator engineering language has C-language syntax.

3.2.17 Develop Common Object Request Broker Architecture (CORBA) interfaces between the National Cycle Program (NCP) Object Oriented Classes (coded in C++) and the existing 2-D and 3-D engineering analysis codes (most of these 2-D and 3-D codes are in Fortran 77 and a few in Fortran 90). Provide both local and networked-distributed support through CORBA interfaces. Provide documentation and user support for these interfaces to allow for Industry Partners/Customers to routinely couple proprietary codes and data to distributed NPSS simulations. Develop special object modules for "Zooming" including algorithms for transforming information from 3D and 2D interfaces to 1D and vice-versa.

3.2.18 Develop NPSS simulation output interfaces, data management, and graphical presentations. Provide flexible selection capability, with default, programmed selected, and interactive interfaces. Provide Data management including JAVA Database Connectivity (JDBC), and Remote Method Invocation (RMI) (CORBA) interfaces to an Object Oriented Database System that supports relational and versioning.

3.2.19 Provide system administration for the NPSS systems: hardware, software, and networking. Provide administration required for the software development environment. This includes ClearCase for configuration management and ensures special security requirements to provide proprietary code and information protection.

3.2.20 Develop NCP airline flight simulations in support of the Data-Mining of airline flight recorded data. Support the infrastructure to process Quick Access Recorder Compact Disks (QAR CD) recorded by the airline flight recorders. Develop statistical analyses and neural network processing of airline flight data for comparison to NCP engine operation simulations. Develop trend analyses for engine health monitoring and prediction.

3.2.21 Provide technical writing contributions and editing expertise for all NPSS documentation, including, but not limited to, NPSS parent plans, project plans, software development documentation products, and user documentation. Maintain documentation in electronic form accessible on-line and in help files with hyper-linking.

3.2.22 Provide contributions to system, user, test, and programmer documentation for NPSS versions. This includes, but is not limited to, the following: requirements definition, verification and validation objectives, use cases, analysis, object models, interaction diagrams, design specifications, test plans and scripts, and self-documenting code.

3.2.23 Provide as the NASA GRC Learning Technologies Project (LTP) Educational Coordinator planning, implementation, coordination, and evaluation of training, Professional Development Workshops for teachers, and LTP products provided by the LTP. Provide interactive Internet accessible or videoconferencing workshops centered on aerodynamic demonstrations, problem sets, and activities for grades 8-12 that demonstrates experience in the educational community either by having teaching experience or having a basic understanding of the U. S. educational system.

3.2.24 Provide system administration support, optimize system configuration, and provide end user support to porting universal network information exchange (UNIX) based computer codes to the NT environment. Propose ways to improve/upgrade the cluster.

3.2.25 Provide workstation administration and support of workstations for the Computing, Information, and Communications Technologies Program (CICT).

3.2.26 Maintain and enhance walk-in facility for state-of-the-art scientific visualization multimedia productions, and virtual reality applications. Perform pre- and post-production video recording, editing, and effects for computer-based animation and visualization. Develop three-dimensional models for scientific animation, virtual reality, and enhanced web applications. Establish and maintain archive of facility productions. Develop and conduct demonstrations of facility capabilities in support of program advocacy, education and public awareness missions.

3.2.27 Develop tools and applications to meet specific scientific visualization requirements. Develop techniques to facilitate and enhance lab-wide use of scientific visualization software. Prepare reports and conduct seminars on scientific visualization.

3.2.28 Develop techniques and databases to apply virtual reality technology to scientific visualization, collaborative engineering, and mission simulation. Prepare reports and conduct seminars on virtual reality technology.

3.3.39 Coordinate and manage Division's participation in special customer outreach events. Coordinate design and construction of demonstrations and exhibits. Oversee logistical requirements for off-site events including site registration, equipment transportation, and event promotion. Outreach activities can also include: web services, video conferencing, e-business, and simulation labs.

3.3 Advanced Networking Systems and Technologies Development Support

3.3.1 Insert advanced space communications technology into NASA missions through the engineering of advanced space-based communication architectures and corresponding system verification experiments and demonstrations. Perform corresponding engineering, test, integration, and validation activities which may include communication architecture concept and component feasibility analyses; antenna design and tracking schemes, technology, and performance testing; safety related analyses and tests, component and system hardware and software design; and flight payload integration and test activities.

3.3.2 Perform Internet Protocol Research and Development over satellite and other wireless links using GRC developed testbeds and emulation environments. The work shall include protocols and experiment design, execution, analysis, and reporting. This will include participation in the Internet Engineering Task Force (IETF) and other standards making bodies where appropriate.

3.3.3 Reliable Multicast Over Satellite Communications Link Technology Assessment and Development. Provide support in the development of reliable multicast technology using satellite communications analysis, evaluation, and testing. This research and developmental effort is directed toward new and existing geosynchronous and low earth orbit satellite systems utilizing reliable multicasting hardware and software applications and technologies. Potential areas that will require this additional support are:

3.3.3.1 Support the verification and "proof of concept" of multicast distribution in a hybrid context to shorten and flatten the multicast distribution tree and avoid long sets of network routers.

3.3.3.2 Acquisition, analysis, and reporting of data gathered during the experimental phase of the multicast traffic distribution utilizing reliable multicast technology applications over satellite communications links.

3.3.3.3 Operation of UNIX systems, including the use of the C/C++ programming language, and popular UNIX scripting languages. Knowledge of application and transport network levels, and satellite systems beneficial.

3.3.4 Common Air Interface Specifications. The task is to participate in the Telecommunications Industry Association (TIA) and other standard bodies' specification process for the purpose of furthering NASA's interests in the development of Common Air Interface specifications. Associated activities include but are not limited to the:

3.3.4.1 Development and submission of proposals, contributions, or e-mails addressing issues that arise in the development of Common Air Interface Specifications, attendance of relevant meetings, and advocacy of positions supporting NASA's operations.

3.3.5 IP and ATM (Asynchronous Transfer Mode) Interworking of Differentiated Services. The task is to participate in the IETF and ATM Forum Request for Comments (RFC) and specification process for the purpose of furthering NASA's interests in the development of IETF DiffServ RFC's and ATM Forum specifications that address the efficient and effective transport of these IP services. This is including but not limited to the:

3.3.5.1Development and submission of proposals, contributions, or e-mails that address issues that arise in the development of DiffServ RFCs or ATM Forum Specifications, attendance of relevant meetings, and advocacy of positions supporting NASA's operations.

3.3.6 Participate in the technical evaluation of advanced and emerging networking technologies, industry trends, and agency program requirements, and provide recommendations to engineers for possible use at GRC. Investigate, analyze, and make recommendations to incorporate advanced technologies that are compliant with emerging industry/government standards and requirements in accordance with GRC plans and policies, into existing network infrastructure. This may require applied research activities in collaboration with GRC research staff.

3.3.7 Provide development, engineering and program support for NASA's initiatives in large-scale networking, which include, among others, the High Performance Computing and Communications (HPCC), National Research and Education Network (NREN), Next Generation Internet (NGI) and Global Interoperability Broadband Network (GIBN) programs. Provide development, engineering and advocacy support of NASA's operational and research program requirements in the areas of (1) domestic and international spectrum allocation and (2) communications standards and protocols in such bodies as the International Telecommunications Union (ITU), American National Standards Institute (ANSI), ATM Forum, IETF, etc. Represent NASA at U.S. and international meetings as required.

3.3.8 Operate and maintain the GRC network security environment while ensuring that the firewall is operational 24 hours per day, 7 days per week. Propose, test, and implement enhancements for NASA design specifications. Adhere to NASA IT Security Policies. Provide system administration of all machines within the firewall and those used to monitor firewall traffic.

3.3.9 Monitor all network traffic for security purposes. Maintain and monitor logs daily for security threats. Upon direction of the government, search logs for specific incident information.

3.3.10 Respond to threats to the Network. Take appropriate actions to notify the designated government employee of threats. Recommend and implement solutions upon approval of the government.

3.3.11 Provide technical documentation of developed network security applications. Provide input for proposals for new firewall designs. Provide documentation for new implementations and changes made to current design.

3.3.12 Work with customer to meet changing network security requirements. Document customer requests. Generate potential solution and make recommendations. Implement changes to the firewall based on government approval.

3.3.13 Maintain technical currency in the area of network security. Keep abreast of the latest security threats.

3.4 Facility Support

3.4.1 Perform hardware/software installation and maintenance including new systems, removal, disposition, preventative and remedial maintenance, and calibration for 50 plus experimental test facilities each with a dedicated steady state, real-time data acquisition and display system. [Both classified and un-classified environments.]

3.4.2 Provide operational support, backup, recovery, COTS, and unique software maintenance for 50 plus experimental test facilities each with a dedicated steady state, real-time data acquisition and display system. [Both classified and un-classified environments.]

3.4.3 Provide hardware and software configuration management including engineering revision maintenance, logistics, life cycle tracking, specialized system administration, and specialized hardware

and software application development for 50 plus experimental test facilities each with a dedicated steady-state, real-time data acquisition and display system. [Both classified and un-classified environments.]

3.4.4 Provide on-site operations and maintenance support during the facilities' run schedules, typically from the hours of 0700 to 2400, Monday through Friday. Third shift and weekend (Saturday and/or Sunday) support will be required for those facilities scheduled to run during these times. Government programs may require additional service coverage. This service will be at an additional cost to the Government.

3.4.5 Coordinate activities with the data system product line manager, facility personnel, systems development personnel, the application programming staff, network administrators and the contracts for network infrastructure and computer maintenance not covered specifically in this task order area.

3.3.5 Procure and track software/hardware and/or software/hardware maintenance agreements or licenses for a variety of computer platforms as required.

3.3.6 Provide administration, operations, and maintenance of the GRC videoconference facility. Typical work in this area includes scheduling the facility, coordinating with participants and other centers, operating cameras, VCR's, microphones, etc. during conferences, and providing minor routine maintenance and checkout of the facility. Some after-hours support may be required.

3.5 Emerging Technology Applications

3.5.1 Develop, procure, catalog, and maintain a collection of reference books, journals, and online services pertinent to the Glenn ISD and the GRC CIO support staff. Provide [maintain] hardware necessary to support online reference materials. Maintain a walk-in facility for access to and distribution of reference materials pertinent to ISD's products and services. Respond to inquiries/requests for IT Resources and Computing Knowledgeware (ITRACK) services received by phone or electronically. Perform online searches for information specific to ISD products and services as well as next generation technologies in support of ISD and the Center CIO; route information to appropriate workgroups.

3.5.1 Provide application product administration support for a suite of UNIX and Windows based Knowledge Management Systems and centralized web tools software products. Perform software upgrades, troubleshooting, data backup, and userid maintenance.

3.5.2 Provide marketing support for the core suite of Knowledge Management software supported to leverage benefits of these technologies for Glenn or other NASA workgroups. Perform requirements gathering/analysis for workgroups considering use of the core Knowledge Management software products. Prepare and present briefings and/or online information to guide customers in effective use of the Knowledge Management products. Post information online to GRC employees regarding copyright, privacy, and intellectual property regulations.

3.5.3 Provide marketing support for core suite of Project Management decision support tools. Perform requirements gathering/analysis for workgroups considering use of Project Management decision support software products. Support pilot activities associated with introducing users to an array of decision support tools.

3.5.4 Prepare and present briefings and documentation to guide users in the effective use of Project Management support tools. Provide technical support in evaluating and selecting Project Management support tools as requested by the GRC user community.

3.5.5 Provide technical support in modeling the Project Management Decision Support Knowledgebase to ensure alignment with the demands and requirements of the GRC user community.

3.5.6 Analyze needs, research, interview, organize, design, write, edit, illustrate, user-test, produce, and manage a wide range of document products to be presented and distributed through various communications media. Provide technical reports, flowcharts, newsletters, User Manuals, Programmer Manuals, guides and reference materials, on-line helps and tutorials, on-line or portable video presentation, computer-user interface screens, graphics, and various technical and scientific illustrations, forms, displays, and other products.

3.5.7 Organize, develop, design, write, edit, create, illustrate, produce, and deliver alerts, advisories, instructions, manuals, documents, or training classes utilizing various media to offer general and/or specific information technology security training to GRC employees. Such activity shall include collaboration with the GRC Training Office to assure adequacy and the appropriate application of metrics to these tasks.

3.5.8 Analyze methodologies, federal guidelines, and tool kits for the development of enterprise IT Architecture for NASA and GRC and the maintenance of the resulting documentation. Interview the NASA CIO or designates and GRC CIO or designates for the determination of scope, and interview identified business process owners, enterprise and center IT system owners, and implementers.

3.5.9 Develop training material to support the GRC's Agency responsibilities for IT Security training and awareness. Develop documentation and electronic media.

3.5.10 Conduct IT systems, cost, benefits, and return on investment analyses in support of the development of business case proposals for the introduction of new technology into the NASA IT environment.

3.5.11 Perform benchmarking and best practice analysis of IT management and implementation methodologies used by NASA.

3.5.12 Analyze NASA business processes for the purpose of process improvement (including re-engineering) through the application of IT.

3.5.13 Research, recommend, promote, advertise, and revise "standards" for Wintel desktop system interoperability in support of Agency/Center CIO initiatives. This includes, but is not limited to standards for workstation configuration, host level security, system administration, and interoperability with UNIX, and Macintosh desktop environments.

3.5.14 Research, recommend, promote, advertise, and revise "standards" for UNIX desktop system interoperability in support of Agency/Center CIO initiatives. This includes, but is not limited to standards for workstation configuration, host level security, system administration, and interoperability with Wintel, and Macintosh desktop environments.

3.5.15 Research, recommend, promote, advertise, and revise "standards" for Macintosh desktop system interoperability in support of Agency/Center CIO initiatives. This includes, but is not limited to standards for workstation configuration, host level security, system administration, and interoperability with UNIX, and Wintel desktop environments.

3.5.16 Provide support to Glenn Research Center's ISD in various roles and responsibilities assigned by NASA HQ for the management of IT architecture and standards. Principle areas of focus include, but not limited to, collaboration, desktop environment, and IT security. Responsibilities include full life cycle requirements analysis, justification of new initiatives, advocacy, solutions and implementation planning, procurement planning, standards development and measuring, and improving return on investment for large scale implementations.

3.5.17 Assists in identifying areas where IT costs can be reduced and controlled through business cases, and works with ISD and Agency Teams to develop and implement schedules for which IT standards and guidelines will be issued.

3.5.18 Assists NASA in the development and support of a "One NASA" Team Collaboration service, including administration and support for the Team Collaboration Pilot. Research and testing of team collaboration standards and commercial products will be required to assist NASA with standards development and service deployment recommendations.

3.5.19 Provide and manage a "One NASA" Team Collaboration operational service for the Agency including: acquisition of team collaboration software and/or services, administration of operational services including NASA 2810 IT security compliance, change management to assist NASA teams with tool adoption, customer support, and customer chargeback.

4. Deliverables

Blanket Task Order deliverables include:

| | |
|---|---|
| NASA 533 Financial Reports | Monthly |
| Technical Progress Reports | Monthly |

Delivery Order/Task Orders:

As specified in issued delivery/task orders.

B.

# PACE EQUIPMENT LISTING

| Equipment Name | Tag# | MFG# | location | Status | SumOfCost | Comments |
|---|---|---|---|---|---|---|
| Computer, Micro | 2046161 | 6952DBLZK065 | 142/155 | Active | $958.00 | ODIN |
| PG-1 Pager | A1437907 | A1437907 | 142/155 | Active | $88.00 | 2165492046 |
| PH-2 | NT106750 | XSI-Starplus II | 142/155 | Active | $214.00 | 2164338279 |
| Printer,Laser | 1228324 | 3140A79478 | 142/155 | Active | $1,515.00 | ODIN |
| Terminal, Data Processig | 320872 | Q3731 | 142/160PS | Active | $1,127.00 | |
| Terminal, Data Processing | 320894 | Q3781 | 142/155 | Active | $1,127.00 | |
| Computer, Micro | 7700001466 | V119DYSZB492 | 142/212 | Active | $1,633.00 | ODIN |
| Display Unit | 7700002375 | 120CG43HL667 | 142/140 | Active | $0.00 | CPU-7700001466 |
| Display Unit | 2048017 | 2136280 | 142/140 | Active | $936.00 | |
| PH-2 | NT101596 | XKT-GTE | 142/140 | Active | $212.00 | |
| Computer, Micro | 7700005793 | U2245YFZB155 | 142/110 | Active | $1,783.00 | |
| Display Unit | 7700006208 | 24C020951988 | 142/110 | Active | $0.00 | CPU-7700005793 |
| PH-2 | NT106776 | XSI-Starplus II | 142/110 | Active | $214.00 | 2164333279 |
| Printer, Laser | 1228527 | 3221A01964 | 142/110 | Active | $1,564.00 | ODIN |
| Printer, Laser | 1113658 | 3122J80854 | 142/158 | Active | $1,684.00 | |
| Back Up Unit | 2134122 | 38502654 | 142/160 | Active | $5,580.00 | |
| Computer, Micro | 1888986 | DDPMX | 142/193 | Active | $899.00 | |
| Computer, Micro | 7700001757 | UY23JB3ZA060 | 142/189 | Active | $2,240.00 | |
| Computer, Micro | 2046357 | 008H2279 | 142/160 | Active | $4,440.00 | |
| Computer, Micro | 1888701 | 805FC4EF | 142/160 | Active | $3,634.00 | |
| Computer, Micro | 2046355 | 00BH226D | 142/160 | Active | $4,440.00 | |
| Disk Drive Unit | 2133914 | 115H3C29 | 142/160 | Active | $632.00 | |
| Display Unit | 1888698 | 9726GN4005 | 142/160 | Active | $0.00 | CPU-1888701 |
| Display Unit | 7700001523 | 11AFA215B415 | 142/189 | Active | $0.00 | CPU-7700001757 |
| PG-2-Pager | E0714383 | E0714383 | 142/193 | Active | $149.00 | 2165499894 |
| PH-2 | NT107154 | XKT-GTE | 142/193 | Active | $208.00 | 2164332795 |
| Computer, Micro | 1746865 | 6XDX8 | 54 TRL B | Active | $2,261.00 | ODIN |
| Computer, Micro | 2006931 | 938H4277 | 54/TrlB | Active | $11,271.00 | ODIN |
| Display Unit | 2006932 | 0010968-9934KH388 | 54/TrlB | Active | $1,371.00 | ODIN |
| Display Unit | 1402724 | 3Z00342CA | 54 TRL B | Active | $1,047.00 | ODIN |
| PH-2 | NT100370 | XSI-Starplus II | 54/Trl/B | Active | $212.00 | |
| CD-Read/Write | 7700001560 | 11200760 | 6/108 | Active | $0.00 | |
| Computer, Micro | 7700000496 | V203DYSZA058 | 60/108 | Active | $1,831.00 | |
| Computer, Micro | 7700004373 | XB7301GHA6V | 60/110 | Active | $2,043.00 | |
| Disk Drive Unit | 1748808 | 439471 | 60/108 | Active | $159.00 | |
| Display Unit | 1226568 | 2006843 | 5/256 | Active | $1,400.00 | |
| Display Unit | 1888995 | 7X01298DE | 60/108 | Active | $0.00 | CPU-7700000496 |
| Display Unit | 7790009030 | 0102LR3743 | 60/19 | Active | $0.00 | CPU-2134193 |
| Display Unit | 7700004418 | | 60/110 | Active | $0.00 | CPU-7700004373 |
| D-Link | 7700004905 | model#-DSB-H4 | 60/110 | Active | $0.00 | CPU-7700004373 |
| PH-2 | NT100537 | XKT-GTE | 60/108 | Active | $205.00 | |
| Printer, ADP | 2005659 | SGBU12070 | 5/265 | Active | $1,351.00 | |
| Printer, Laser | 7700001211 | JPPAC25224 | 60/2 | Active | $422.00 | |

| | | | | | | |
|---|---|---|---|---|---|---|
| Printer, Laser | 1503196 | J206G16 | 60/108 | Active | $422.00 | |
| Printer, Laser | 2135702 | CNGRH14991 | 60/108 | Active | $1,298.00 | |
| Printer, Laser | 1747246 | SJ406L37 | 60/126 | Active | $422.00 | |
| Printer, Laser | 2135701 | CNGRH14996 | 60/108 | Active | $1,298.00 | |
| Printer, Laser | 2135700 | CNGRH15004 | 60/108 | Active | $1,298.00 | |
| Printer, Laser | 2135742 | JPAKB00917 | 60/108 | Active | $2,424.00 | |
| Projector, Video | 1621488 | 50113156 | 60/108 | Active | $3,333.00 | |
| Server, Communications | 2134193 | 126S0EB1 | 60/019 | Active | $13,664.00 | |
| Tape Drive Unit | 1226565 | 37007793 | 23/W3CR | Active | $520.00 | |
| Tape Drive Unit | 2050091 | 674627 | 60/108 | Active | $3,200.00 | |
| VST | 7700004862 | model#-FDUSB-M | 60/110 | Active | $0.00 | CPU-7700004373 |
| Zip Drive | 7700003740 | 6JCM43E8F4 | 60/108 | Active | $0.00 | CPU-7700000496 |
| ZipDrive | 7700001196 | 75CM12N55F | 6/108 | Active | $0.00 | |
| | | | | | | |
| Computer, Micro | 2046144 | 6001BZSZK263 | 142/293 | Active | $1,230.00 | ODIN |
| Display Unit | 1503920 | MH27G6019696 | 142/293 | Active | $670.00 | ODIN |
| PH-2 | NT107061 | XKT-GTE | 142/291 | Active | $206.00 | |
| Projector | 2050009 | 13697958 | 142/291 | Active | $3,499.00 | |
| | | | | | | |
| Assembly, Local Input | 1109682 | 517 | 142/160A | Active | $9,700.00 | |
| Assembly, Local Input | 146980 | 10760 | 142/160A | Active | $15,000.00 | |
| Assembly, Local Input | 312738 | 8728 | 142/160A | Active | $14,700.00 | |
| Back Up Unit | 1748786 | WS9711594148 | 142/160 | Active | $1,533.00 | |
| Calibrator, Multifunction | 1621393 | 8031190 | 142/282 | Active | $1,616.00 | |
| Calibrator, Pressure | 415384 | 69 | 5/CW9 | Active | $11,280.00 | |
| Calibrator, Voltage | 1068098 | 15481 | 142/282 | Active | $2,152.00 | |
| Chassis, Expansion | G093961 | WF94705086 | 142/160A | Active | $5,695.00 | |
| Computer, Micro | 2048036 | 2397933 | 142/282 | Active | $1,715.00 | |
| Computer, Micro | 1109469 | 103CC000059 | 35/3 | Active | $3,400.00 | |
| Computer, Micro | 7700001357 | U118DYSZB895 | 142/282 | Active | $1,747.00 | |
| Computer, Micro | 1503265 | 6VRD8 | 142/160F | Active | $1,971.00 | |
| Computer, Mini | G093960 | WF95006741 | 142/160A | Active | $66,034.00 | |
| Computer, Portable | 2049986 | 12631074 | 142/282 | Active | $5,787.00 | retagged-1506141 |
| Computer, Portable | 2049985 | 12635514-3 | 142/282 | Active | $5,787.00 | retagged-1506536 |
| Counter, Timer | 1407276 | 608773 | 21/16 | Active | $1,139.00 | |
| Counter, Timer | 1407283 | 607090 | 21/16 | Active | $2,016.00 | |
| Display Unit | 1503051 | 7009569 | 142/160F | Active | $802.00 | |
| Display Unit | 7700001513 | 113CG43HP176 | 142/282 | Active | $0.00 | CPU-7700001357 |
| Extender, Bus | 1227560 | 11046 | 142/79 | Active | $1,195.00 | |
| Extender, Bus | 1114173 | GPIB100 | 142/79 | Active | $1,195.00 | |
| Extender, Bus | 1114172 | 10938 | 142/79 | Active | $1,195.00 | |
| Generator, Arbitrary | 47738 | US34019759 | 142/282 | Active | $1,691.00 | |
| Generator, Pulse/Function | 1435276 | 2849G08630 | 142/282 | Active | $2,741.00 | |
| Meter, Power | 2047325 | DM7470050 | 142/282 | Active | $1,544.00 | |
| Multimeter, Bench | 2005214 | 2823A1759 | 142/282 | Active | $645.00 | |
| Multimeter, Bench | 1439310 | 606840 | 142/160A | Active | $3,163.00 | |
| Multimeter, Bench | 1439315 | 606831 | 142/282AS | Active | $3,163.00 | |
| Multiplexer, Differential | 1438317 | 9118 | 142/260B | Active | $13,789.00 | |
| Multiplexer, Differential | 707877 | 6048 | 142/79 | Active | $13,205.00 | |
| Multiplexer, Differential | 611250 | 14238 | 142/79 | Active | $17,597.00 | |
| Multiplexer, Differential | 311159 | 9119 | 142/79 | Active | $14,578.00 | |
| Multiplexer, Differential | 49826 | 18357 | 142/287 | Active | $17,652.00 | |

| | | | | | | |
|---|---|---|---|---|---|---|
| Multiplexer, Differential | 317753 | 620400 | 142/79 | Active | $11,519.00 | |
| Multiplexer, Multichannel | 146739 | 18587 | 142/79 | Active | $5,568.00 | |
| Oscilliscope | 2047278 | B015162 | 142/282 | Active | $3,436.00 | |
| Oscilliscope | 2135085 | SG0000567 | 142/282 | Active | $3,572.00 | |
| Oscilloscope | 2005275 | B011255 | 142/282 | Active | $2,725.00 | |
| PH-2 | NT108385 | XSI-2-Line-Starplus II | 142/282 | Active | $206.00 | |
| PH-2 | NT109565 | XSI-2-line-Starplus II | 142/282 | Active | $206.00 | |
| Printer, Label | 1109681 | 27607 | 142/282 | Active | $1,109.00 | |
| Printer, Laser | 1326944 | JPBG035502 | 142/160A | Active | $1,852.00 | |
| | | | | | | |
| Computer, Micro | 2046159 | 6952DBLZK061 | 142/160A | Active | $958.00 | |
| Display Unit | 1111502 | JPF0650092 | 142/160B | Active | $3,416.00 | |
| Display Unit | 1111503 | JPF0650092 | 142/160A | Active | $3,416.00 | |
| Display Unit | 1113489 | FF1420295 | 142/160B | Active | $3,011.00 | |
| Module, Computer | 1110490 | B060952 | 142/160A | Active | $2,232.00 | |
| PH-3 | NT106441 | DT28DS-Fujitsu | 142/164 | Active | $206.00 | |
| | | | | | | |
| Computer, Mico | 2049281 | FW03870168 | 142/160 | Active | $3,057.00 | ODIN |
| Computer, Micro | 2048177 | 6028BZSZA034 | 142/158 | Active | $1,829.00 | |
| Computer, Micro | 1891767 | FLQT2 | 142/232 | Active | $1,382.00 | ODIN |
| Computer, Micro | 2049279 | FW03870145 | 142/160 | Active | $3,057.00 | ODIN |
| Computer, Micro | 2049280 | FW03870141 | 142/160 | Active | $3,057.00 | ODIN |
| Computer, Micro | 1745121 | 8HHCW | 142/158 | Active | $6,926.00 | ODIN |
| Disk Drive Unit | 2135067 | 16615 | 142/158 | Active | $957.00 | |
| Display Unit | 2049278 | 0036LL1358 | 142/160 | Active | $548.00 | ODIN |
| Display Unit | 1749166 | 2057811 | 142/160 | Active | $1,316.00 | |
| Display Unit | 2049277 | 0036LL1357 | 142/160 | Active | $548.00 | ODIN |
| Display Unit | 1890683 | 2755366 | 142/159 | Active | $1,250.00 | ODIN |
| Display Unit | 1891488 | 7013945 | 142/159 | Active | $1,200.00 | ODIN |
| PH-2 | NT101551 | XKT-GTE | 142/158 | Active | $206.00 | |
| Printer, Laser | 1434463 | JPFJ007387 | 142/152 | Active | $1,860.00 | ODIN |
| Tape Drive Unit | 1745619 | 4A62210025 | 142/159 | Active | $1,827.00 | |
| | | | | | | |
| Computer, Micro | 7700006077 | | 142/106 | Active | $0.00 | |
| Display Unit | 7700006053 | | 142/106 | Active | $0.00 | |
| PH-2 | NT100764 | XKT-GTE | 142/238 | Active | $206.00 | |
| | | | | | | |
| Cell Phone | 8207757262 | 52765DCECEJ | 302/124B | Active | $749.00 | 2165091443 |
| Computer, Micro | 2135252 | HCRCH11 | 302/124B | Active | $422.00 | |
| Display Unit | 2135250 | 24N-608C | 302/124B | Active | $0.00 | |
| PH-3 | NT110689 | 12DS | 302/124B | Active | $228.00 | |
| | | | | | | |
| Computer, Micro | 7700001852 | V124DB3ZA023 | 60/105 | Active | $2,144.00 | |
| Computer, Micro | 1749204 | B0XC9 | 142/189 | Active | $2,188.00 | ODIN |
| Display Unit | 7700001337 | 112FA21SA975 | 60/105 | Active | $0.00 | CPU-7700001852 |
| PH-3 | NT100678 | DT14DS-Fujitsu | 142/193 | Active | $228.00 | |
| Scanner, Optical | 1745703 | SG630220C0 | 60/105 | Active | $780.00 | |
| | | | | | | |
| Computer, Micro | 2135244 | 309419 | 142/140 | Active | $422.00 | |
| PH-2 | N104334 | XKT-GTE | 142/140 | Active | $206.00 | |
| | | | | | | |
| Computer, Micro | 1748506 | 72BF0B33 | 7/119 | Active | $2,185.00 | |

| | | | | | | |
|---|---|---|---|---|---|---|
| Computer, Micro | 1748507 | 726F0AA8 | 7/119 | Active | $2,185.00 | |
| Computer, Micro | 1748508 | 723F00E6 | 7/119 | Active | $422.00 | |
| PH-2 | NT101970 | XKT-GTE | 7/119 | Active | $206.00 | |
| | | | | | | |
| Computer, Micro | 2046168 | 6952DBLZK056 | 142/160 | Active | $958.00 | |
| Display Unit | 7790001053 | | 142/160 | Active | $0.00 | |
| PH-3 | NT107383 | DT14-Fujitsu | 142/160 | Active | $234.00 | |
| | | | | | | |
| Computer, Micro | 7700003493 | U146FCDZA006 | 142/158 | Active | $2,144.00 | |
| Display Unit | 7700003200 | 41E012600149 | 142/158 | Active | $0.00 | CPU-7700003493 |
| PH-2 | NT100518 | XKT-GTE | 142/158 | Active | $206.00 | 2164336626 |
| | | | | | | |
| Computer, Micro | 7700003155 | U142FCDZA006 | 142/107 | Active | $2,144.00 | |
| Display Unit | 7700003060 | 41E012500763 | 142/107 | Active | $0.00 | CPU-7700003155 |
| PH-2 | NT100516 | XKT-GTE | 142/107 | Active | $206.00 | 2164335056 |
| | | | | | | |
| Disk Drive Unit | 1746834 | 736N01442 | 142/293 | Active | $549.00 | |
| | | | | | | |
| Computer, Micro | 7700004798 | V110DYSZB102 | 3/5 | Active | $1,748.00 | |
| Display Unit | 7700004137 | 042CG43H1561 | 3/5 | Active | $0.00 | CPU-7700004798 |
| File100001 | FILE100001 | | 3/117 | Active | $1,459.00 | |
| File10047 | FILE10047 | | 3/117 | Active | $859.00 | |
| PH-3 | NT110319 | DT12DS-Fujitsu | 3/5 | Active | $234.00 | 2164335102 |
| Printer, Scanning | 2005245 | S8B9516064 | 21/113 | Active | $615.00 | |
| | | | | | | |
| Computer, Micro | 2006189 | UYD33 | 142/110 | Active | $970.00 | ODIN |
| PH-2 | NT109681 | XKT-GTE | 142/110 | Active | $206.00 | 2164335118 |
| | | | | | | |
| Asset | 7700004843 | Model# - VST | 142/157 | Active | $0.00 | CPU-7700004680 |
| Asset | 7700004874 | MODEL# - DSB-H4 | 142/157 | Active | $0.00 | CPU-7700004680 |
| Computer, Micro | 2046210 | RN948D3NHU8 | 142/157 | Active | $1,337.00 | ODIN |
| Computer, Micro | 7700004680 | | 142/157 | Active | $2,007.00 | |
| Computer, Micro | 2049079 | 5G62872L6UK | 500/2413 | Active | $2,163.00 | ODIN |
| Display Unit | 1069730 | 08M80801T | 142/157 | Active | $1,500.00 | |
| Display Unit | 7700001364 | VU11518BJAK | 142/157 | Active | $0.00 | CPU-7700004680 |
| PH-2 | NT100775 | XKT-GTE | 142/157 | Active | $206.00 | 2164338468 |
| | | | | | | |
| Computer, Micro | 7700003154 | U142FCDZA007 | 142/113 | Active | $2,144.00 | |
| Display Unit | 7700003063 | 41E0125001006 | 142/113 | Active | $0.00 | CPU-7700003154 |
| PH-2 | NT100390 | XKT-GTE | 142/113 | Active | $206.00 | 2164332854 |
| Printer, Laser | 1436471 | JPGF005846 | 142/113 | Active | $1,809.00 | |
| | | | | | | |
| Cell Phone | 8.20776E+16 | 52768566CEJ | 302/124B | Active | $749.00 | 2165095035 |
| Computer, Micro | 2135251 | 1DRCH11 | 302/124B | Active | $422.00 | |
| PH-3 | NT009282 | 12DS | 302/124B | Active | $228.00 | 2164336087 |
| | | | | | | |
| Computer, Micro | 2055392 | none | 142/160 | Active | $6,528.00 | |
| Computer, Micro | 2005373 | XA9130YZOV | 142/269 | Active | $744.00 | |
| Computer, Micro | 7700002407 | XB132LYKSD | 142/112 | Active | $2,043.00 | |
| Computer, Micro | 7700000166 | FT14310108 | 142/269 | Active | $6,563.00 | |
| Computer, Micro | 2057465 | 037H4161 | 142/160 | Active | $13,995.00 | |
| Computer, Micro | 7700002892 | XB13712BKSD | 142/269 | Active | $2,043.00 | |

| | | | | | | |
|---|---|---|---|---|---|---|
| Computer, Micro | 2048617 | 4029DQMZ1031 | 142/269 | Active | $4,828.00 | ODIN |
| Computer, Micro | 2046619 | HHA8T | 142/269 | Active | $1,294.00 | ODIN |
| Computer, Micro | 7700000169 | FT14310110 | 142/160 | Active | $4,522.00 | |
| Computer, Portable | 2049049 | 3J08FWB3G09J | 142/269 | Active | $2,331.00 | ODIN |
| Disk Drive Unit | 7700002760 | 39013 | 142/112 | Active | $0.00 | CPU-7700002407 |
| Disk Drive Unit | 7700002759 | 32058 | 142/269 | Active | $0.00 | CPU-7700002892 |
| Display Unit | 7700000871 | N51522YZKPW | 142/269 | Active | $0.00 | CPU-7700002892 |
| Display Unit | 7700000389 | CY1471KYJPC | 142/112 | Active | $0.00 | CPU-7700002407 |
| Display Unit | 2048618 | 008CA45VB216 | 142/269 | Active | $606.00 | ODIN |
| Display Unit | 7700000174 | 0140LB0120 | 142/160 | Active | $0.00 | CPU-7700000169 |
| Display Unit | 2005371 | CY902420CVS | 142/269 | Active | $0.00 | CPU-2005373 |
| Display Unit | 7700000177 | 0136LB1928 | 142/160 | Active | $0.00 | CPU-7700000166 |
| Display Unit | 2054036 | 61.54011.012 | 142/160 | Active | $1,492.00 | |
| PH-2 | NT103490 | XKT-GTE | 142/269 | Active | $206.00 | 2164332947 |
| Switch, Communications | 2057737 | 14210A555MR081 | 142/160 | Active | $1,100.00 | |
| Tape Drive Unit | 2061153 | 3B114013MI | 142/160 | Active | $7,310.00 | |
| USB-Hub | 7700002785 | GCH010708575 | 142/269 | Active | $0.00 | CPU-7700002407 |
| USB-Hub | 7700002786 | GCH010708571 | 142/269 | Active | $0.00 | CPU-7700002892 |
| | | | | | | |
| Computer, Micro | 2135245 | 309418 | 142/144 | Active | $422.00 | |
| PH-3 | NT109025 | 24DS | 142/144 | Active | $228.00 | 2164336096 |
| | | | | | | |
| Computer, Micro | 2046586 | H8U6H | 142/144 | Active | $701.00 | ODIN |
| Computer, Portable | 1891549 | Z6NJ4 | 142/152 | Active | $422.00 | |
| Display Unit | 2048019 | 2136278 | 142/144 | Active | $936.00 | |
| Docking Station | 7790001025 | 53093 | 142/152 | Active | $0.00 | CPU-1891549 |
| PH-3 | NT110506 | DT12DS-Decision One | 142/144 | Active | $228.00 | 2164339809 |
| | | | | | | |
| Computer, Micro | 7700005941 | U225JYFZA030 | 3/7 | Active | $1,783.00 | |
| Computer, Micro | 7700000503 | V203DYSZA100 | 3/7 | Active | $1,840.00 | |
| Display Unit | 7700005252 | 24C020951204 | 3/7 | Active | $0.00 | CPU-7700005941 |
| Display Unit | 7700000329 | 24B014950508 | 3/7 | Active | $0.00 | CPU-7700000503 |
| Fax Machine | 1220367 | 9305930 | 3/7 | Active | $783.00 | 2164332735 |
| PH-1 | NT104812 | 28DT | 3/7 | Active | $193.00 | 2164332593 |
| PH-1 | NT100560 | XKT-GTE | 3/7 | Active | $193.00 | 2164335831 |
| PH-3 | NT106879 | DT28S-Fujitsu | 3/11 | Active | $302.00 | 2164332593 |
| PH-3 | NT106883 | DT28S-Fujitsu | 3/7 | Active | $302.00 | 2164339645 |
| PH-3 | NT106886 | DT28S-Fujitsu | 3/7 | Active | $302.00 | 2164332666 |
| | | | | | | |
| Cell Phone | 4E014CF4 | 78700085236 | 142/130 | Active | $749.00 | 2167890170 |
| Computer, Micro | 2045974 | 302041 | 311 | Active | $737.00 | ODIN |
| Computer, Micro | 2006680 | FW91320537 | 311 | Active | $422.00 | |
| Computer, Micro | 1621028 | 35M600B | 311 | Active | $715.00 | ODIN |
| Computer, Micro | 2047251 | HMM500B | 7/119 | Active | $623.00 | ODIN |
| Computer, Portable | 7700003712 | DDC7211 | 7/119 | Active | $2,211.00 | |
| Computer, Portable | 7700003713 | HDC7211 | 7/119 | Active | $2,211.00 | |
| PH-2 | NT105150 | XSP-Starplus II | 142/130 | Active | $212.00 | 2164339336 |
| Walkie Talkie, Trunked | 1327307 | 1230924 | 142/140 | Active | $204.00 | ODIN |
| Walkie Talkie, Trunked | 1327306 | 1230943 | 142/140 | Active | $204.00 | ODIN |
| | | | | | | |
| Adapter, Fiber Optic | 1620873 | 7157024 | 142/282 | Active | $2,000.00 | |
| Adapter, Fiber Optic | 1620874 | 7157023 | 142/282 | Active | $2,000.00 | |

| | | | | | | |
|---|---|---|---|---|---|---|
| Analyzer, Cable | 1620750 | 7427057 | 142/282C3D | Active | $2,788.00 | |
| Analyzer, Communication | 4992 | 11657 | 142/160B | Active | $9,000.00 | |
| Analyzer, Remote | 1620751 | 7427057A | 142/282C3D | Active | $2,788.00 | |
| Assembly, Local Input | 1886243 | 599 | 142/160B | Active | $19,600.00 | |
| Assembly, Local Input | 312737 | 8735 | 142/160 | Active | $14,700.00 | |
| Assembly, Local Input | 686809 | 7696 | 142/160 | Active | $24,300.00 | |
| Assembly, Local Input | G048548 | 261 | 142/282 | Active | $13,286.00 | |
| Calibrator/Standard, Volta | 1068100 | 17070 | 142/160 | Active | $2,554.00 | |
| Chassis, Expansion | 2048027 | 621 | 142/282 | Active | $2,100.00 | |
| Chassis, Expansion | 2049537 | 1365 | 142/282 | Active | $4,000.00 | |
| Chassis, Expansion | 2049543 | 222071 | 142/79 | Active | $1,436.00 | |
| Chassis, Expansion | 2049541 | 222073 | 142/260B | Active | $1,436.00 | |
| Chassis, Expansion | 2049542 | 222084 | 142/79 | Active | $1,436.00 | |
| Chassis, Expansion | 2049544 | 222083 | 142/79 | Active | $1,436.00 | |
| Chassis, Expansion | 249468 | WF62607087 | 142/79 | Active | $2,220.00 | |
| Chassis, Expansion | 2049540 | 220210 | 142/260B | Active | $1,436.00 | |
| Chassis, Expansion | 2049538 | 1375 | 142/282 | Active | $4,000.00 | |
| Computer, Micro | 1502251 | 6DJC1 | 142/160 | Active | $2,202.00 | |
| Computer, Micro | 7700003938 | U150DYAZA281 | 142/79 | Active | $1,735.00 | |
| Computer, Micro | 7700001351 | U118DYSZB915 | 142/282 | Active | $1,747.00 | |
| Computer, Micro | 1745661 | 6XDUN | 142/160B | Active | $2,261.00 | |
| Computer, Micro | 1748826 | 9RLFF | 142/160 | Active | $1,921.00 | |
| Computer, Micro | 2047462 | NI6230103E | 142/160 | Active | $1,950.00 | |
| Computer, Micro | 2048031 | N1625056V2 | 142/160 | Active | $1,584.00 | ODIN |
| Computer, Micro | 2048032 | N162505GU0 | 142/160 | Active | $1,584.00 | |
| Computer, Micro | 2048033 | N162505HLL | 142/160 | Active | $1,584.00 | ODIN |
| Computer, Micro | 2048030 | N171002HDM | 142/160 | Active | $950.00 | ODIN |
| Computer, Micro | 1889122 | DM7FG | 142/160 | Active | $1,489.00 | |
| Computer, Portable | 1228134 | S202FD111336 | 142/282AS | Active | $2,485.00 | |
| Digitizer | 2134829 | 1418 | 142/287 | Active | $6,368.00 | |
| Digitizer | 1435551 | 385 | 142/282 | Active | $3,720.00 | |
| Disk Drive Unit | 1621223 | 00157M4714 | 142/282 | Active | $555.00 | |
| Disk Drive Unit | 1621226 | 00166M6295 | 142/260b | Active | $555.00 | |
| Disk Drive Unit | 1621224 | 00157M4719 | 142/79n2b | Active | $555.00 | |
| Disk Drive Unit | 2134124 | 4Z05310017 | 142/160 | Active | $900.00 | |
| Disk Drive Unit | 1621225 | 00166M6287 | 142/79n2b | Active | $555.00 | |
| Display Unit | 2050635 | 039CA45VA109 | 142/260b | Active | $510.00 | |
| Display Unit | 7770002040 | | 142/282 | Active | $0.00 | CPU-7700001351 |
| Display Unit | 1068281 | 630611 | 142/160B | Active | $2,554.00 | |
| Display Unit | 1114197 | 642914 | 142/160B | Active | $2,180.00 | |
| Display Unit | 2050636 | 039CA45VA026 | 142/260b | Active | $510.00 | |
| Display Unit | 1749382 | 66746J1RMQ | 142/160 | Active | $500.00 | |
| Display Unit | 1114195 | 644059 | 142/160B | Active | $2,180.00 | |
| Display Unit | 1227298 | TA12527673 | 142/160W6A | Active | $1,000.00 | |
| Display Unit | 7700000025 | 2.18014E+11 | 142/79 | Active | $0.00 | CPU-7700003938 |
| Display Unit | G092190 | 626569 | 142/160W5 | Active | $2,265.00 | |
| Display Unit | 2135069 | 20057702 | 142/282 | Active | $1,875.00 | |
| Display Unit | 1891433 | 20013018 | 142/160B | Active | $2,100.00 | |
| Display Unit | G094678 | HK01806824 | 142/282AS | Active | $2,500.00 | |
| Display Unit | 1749011 | 7140994 | 142/160 | Active | $704.00 | |
| Display Unit | 1749369 | 66746J1JYJ | 142/160 | Active | $500.00 | ODIN |
| Display Unit | 1749371 | 66746T1RMF | 142/160 | Active | $500.00 | |

| | | | | | | |
|---|---|---|---|---|---|---|
| Display Unit | 1502804 | 5A55033347 | 142/160 | Active | $949.00 | |
| Display Unit | 1621227 | 039CA45VA093 | 142/160B | Active | $510.00 | |
| Display Unit | 1749194 | 66510A3Y1067 | 14/2160 | Active | $704.00 | |
| Display Unit | 1621228 | 039CA45VA111 | 35/RL24 | Active | $510.00 | |
| Display Unit | 1328757 | 4131236627 | 142/160B | Active | $1,160.00 | |
| Extender, Bus | 2133909 | C94DC0 | 142/79 | Active | $1,191.00 | |
| Extender, Bus | 2133908 | C94DC5 | 142/79 | Active | $1,191.00 | |
| Extender, Bus | 2133906 | C94DF0 | 142/79 | Active | $1,191.00 | |
| Extender, Bus | 1228243 | 11041 | 142/79 | Active | $1,195.00 | |
| Extender, Bus | 2134125 | CAAD89 | 142/79 | Active | $1,191.00 | |
| Extender, Bus | 2133867 | C8D1B9 | 142/79 | Active | $1,191.00 | |
| Extender, Bus | 2133868 | C8D1C9 | 142/79 | Active | $1,191.00 | |
| Extender, Bus | 2133870 | C8D20F | 142/79 | Active | $1,191.00 | |
| Extender, Bus | 2133871 | C8D1CB | 142/79 | Active | $1,191.00 | |
| Extender, Bus | 2133872 | C8D23C | 142/79 | Active | $1,191.00 | |
| Extender, Bus | 2133905 | C94DC1 | 142/79 | Active | $1,191.00 | |
| Extender, Bus | 2133907 | C94DF7 | 142/79 | Active | $1,191.00 | |
| Generator, Time Code | 767054 | 5100 | 142/160B | Active | $7,094.00 | |
| Meter, Signal Level | 1276539 | 3083005 | 142/282AS | Active | $4,110.00 | |
| Multimeter, Digital | 1889213 | 2823A20325 | 142/282 | Active | $6,555.00 | |
| Multiplexer, Differential | 318067 | 9134 | 142/160B | Active | $15,692.00 | |
| Multiplexer, Differential | 686811 | 17297 | 142/160E | Active | $20,200.00 | |
| Oscilloscope | 1226994 | B012902 | 142/160B | Active | $1,995.00 | |
| Oscilloscope | 609646 | B081975 | 142/160D | Active | $6,221.00 | |
| PH-2 | NT110671 | XSI-2-Line-Starplus II | 142/282 | Active | $206.00 | 2164335132 |
| Printer, Laser | 2048029 | USBC130312 | 142/160 | Active | $1,410.00 | |
| Printer, Laser | 2048028 | USBB302623 | 142/160 | Active | $1,410.00 | |
| Printer, Laser | 2049545 | USBC160135 | 142/79 | Active | $1,411.00 | |
| Recorder-Reproducer Set, | 1228609 | NONE | 142/160 | Active | $45,000.00 | |
| Server, Communications | 49454 | 1R61359899 | 142/79m3b | Active | $1,490.00 | |
| Server, Communications | 1501812 | 1R60557967 | 142/79m3b | Active | $1,328.00 | |
| Server, Communications | 1501811 | 1R60958078 | 142/79m2b | Active | $1,328.00 | |
| Server, Communications | 1501814 | 1R60558016 | 142/282 | Active | $1,328.00 | |
| Server, Communications | 49282 | 08-00-2B-A4-3E-F9 | 142/79m3b | Active | $1,867.00 | |
| Server, Communications | 1501807 | 1R60557971 | 142/79m3b | Active | $1,328.00 | |
| Server, Communications | 49281 | 08-00-2B-A4-3B70 | 142/79m2b | Active | $1,867.00 | |
| Server, Communications | 1501806 | 1R60558060 | 142/79m3b | Active | $1,328.00 | |
| Server, Communications | 1501810 | 1R60558126 | 142/79m3b | Active | $1,328.00 | |
| Server, Communications | 1501809 | 1R60558118 | 142/79M3B | Active | $1,328.00 | ODIN |
| Storage Unit | 2134138 | 029H2462 | 142/282 | Active | $11,955.00 | |
| Switch, Communications | 2134801 | SSGLKH5C22 | 142/79 | Active | $1,571.00 | |
| Switch, Communications | 2134802 | SSGLKH5CKR | 142/79 | Active | $1,571.00 | |
| Switch, Communications | 2007615 | KEE0047666 | 142/79 | Active | $2,208.00 | |
| Switch, Communications | 2134803 | SSGLKH5C23 | 142/79 | Active | $1,571.00 | |
| Switch, Communications | 2134439 | SSGLKH5C2H | 142/79 | Active | $1,571.00 | |
| Switch, Comunications | 2134800 | SSGLKH5C21 | 142/79 | Active | $1,571.00 | |
| Switch, Ethernet | 2048516 | SSGLKH1KVR | 142/160 | Active | $1,702.00 | |
| Switch, Ethernet | 1891166 | 031298AL2001E05 | 142/282AS | Active | $977.00 | |
| Switch, Ethernet | 2047441 | SSGLKHOTR1 | 142/160 | Active | $1,615.00 | |
| Switch, Network | 2134425 | SSGLKG082L | 142/79 | Active | $1,315.00 | |
| Switch, Network | 2134424 | SSGLKG082L | 142/79 | Active | $1,315.00 | |
| Switching Unit, Electronic | 99272 | AG71985137 | 142/Cntrl | Active | $2,751.00 | |

| | | | | | | |
|---|---|---|---|---|---|---|
| Switching Unit, Electronic | 99274 | AG721f5532 | 142/260B | Active | $2,751.00 | |
| Switching Unit, Electronic | G048719 | AG714 | 142/Cntrl | Active | $2,751.00 | |
| Tape Drive Unit | 2134404 | 4Z10610061 | 142/282A | Active | $900.00 | |
| Tape Drive Unit | 1886330 | 3D24809874 | 142/160E | Active | $562.00 | |
| Tape Drive Unit | 1620480 | 3D24804920 | 142/160B | Active | $525.00 | |
| Terter, Fiber Optic | 2049885 | 7491001 | 142/282 | Active | $2,995.00 | |
| Tester, Fiber Optic | 2134402 | 7941002 | 142/282A | Active | $1,007.00 | |
| Tester, Fiber Optic | 2134401 | 7941013 | 142/282A | Active | $1,007.00 | |
| Tester, Fiber Optic | 2134400 | 7884017 | 142/282A | Active | $1,007.00 | |
| Tester, Fiber Optic | 2134139 | 7883013 | 142/282A | Active | $1,007.00 | |
| | | | | | | |
| PH-2 | NT103930 | XKT-GTE | 60/108 | Active | $206.00 | 2164338828 |
| | | | | | | |
| Computer, Micro | 2006852 | 13XB5 | 142/155 | Active | $1,783.00 | |
| Display Unit | 2006548 | 221DA1HWW29 | 142/155 | Active | $0.00 | CPU-2006852 |
| PH-2 | NT100552 | XKT-GTE | 142/155 | Active | $206.00 | 2164335117 |
| | | | | | | |
| Computer, Micro | 7700002634 | V136JB3ZA001 | 142/189 | Active | $2,144.00 | |
| Computer, Micro | 7700001758 | V123JB3ZA052 | 142/189 | Active | $2,144.00 | |
| Disk Drive Unit | 1888697 | 803G3258 | 142/160K | Active | $1,601.00 | |
| Display Unit | 7700001619 | 114FA21SE319 | 142/189 | Active | $0.00 | CPU-7700001758 |
| Display Unit | 7700002456 | 41E012500752 | 142/189 | Active | $0.00 | CPU-7700002634 |
| Scanner | 7700002556 | S17D108730 | 142/189 | Active | $0.00 | CPU-7700002556 |
| | | | | | | |
| Computer, Micro | 7700000189 | V201DYSZA159 | 142/106 | Active | $1,747.00 | |
| Display Unit | 7700000071 | 2.18014E+11 | 142/106 | Active | $0.00 | CPU-7700000189 |
| Display Unit | 1502462 | 09656A0TRP | 142/287 | Active | $802.00 | ODIN |
| PH-2 | NT100343 | XKT-WSPK | 142/106 | Active | $212.00 | 2164335820 |
| | | | | | | |
| Asset | 7700004853 | VST | 142/189 | Active | $0.00 | CPU-7700004927 |
| Asset | 7700004872 | DSB-H4 | 142/189 | Active | $0.00 | CPU-7700004927 |
| Computer, Micro | 7700004927 | PowerMac G4 cube | 142/189 | Active | $2,007.00 | |
| Computer, Micro | 7700006089 | V225KN7ZA697 | 142/188 | Active | $1,783.00 | |
| Computer, Micro | 2047195 | 6016DHMZA044 | 142/188 | Active | $1,783.00 | |
| Display Unit | 7700004991 | M7770ZMA | 142/189 | Active | $0.00 | CPU-7700004927 |
| Display Unit | 7700006218 | 24C021754453 | 142/188 | Active | $0.00 | CPU-7700006089 |
| PH-2 | NT100680 | XSI-Starplus II | 142/188 | Active | $212.00 | 2164339700 |
| Computer, Portable | 1747180 | 83BV4 | 6/139 | Active | $4,369.00 | |
| | | | | | | |
| Computer, Micro | 2007861 | FW92120452 | 142/138 | Active | $714.00 | |
| Computer, Micro | 2046278 | H2QU8 | 142/138 | Active | $612.00 | |
| Computer, Micro | 1887783 | FLRR2 | 322/104 | Active | $1,382.00 | |
| Computer, Micro | 1438201 | 509F008K | 142/138 | Active | $786.00 | |
| Display Unit | 1890335 | 3651383-01 | 142/138 | Active | $0.00 | CPU-1438201 |
| Display Unit | 2048015 | 2124521 | 142/136 | Active | $959.00 | ODIN |
| PH-2 | NT110891 | XSC-Cortelco-Patriot | 142/138 | Active | $212.00 | 2164336493 |
| Shredder, Paper | 1437185 | None | 2103 | Active | $1,500.00 | |
| | | | | | | |
| Computer, Micro | 2049080 | None | 142/176 | Active | $5,548.00 | |
| Display Unit | 1745617 | 4K62705299 | 142/242 | Active | $2,097.00 | |
| Display Unit | 2046231 | 456B059-9942-01604 | 142/286B | Active | $2,485.00 | |
| PH-2 | NT100309 | XSI-Starplus II | 142/242 | Active | $212.00 | 2164335105 |

| | | | | | | |
|---|---|---|---|---|---|---|
| Computer, Micro | 2046276 | H2QUF | 142/138 | Active | $609.00 | |
| Computer, Micro | 2048218 | FW02850227 | 142/138 | Active | $3,233.00 | ODIN |
| Disk Drive Unit | 1229787 | 233G1288 | 142/144 | Active | $697.00 | |
| Display Unit | 1502081 | 9617G12991 | 142/144 | Active | $2,000.00 | |
| PH-2 | NT-105223 | XKT-GTE | 142/138 | Active | $206.00 | 2164336536 |
| | | | | | | |
| Computer, Micro | 2047177 | 6017DHMZA078 | 49/129 | Active | $1,844.00 | |
| Display Unit | 7790007231 | | 49/129 | Active | $0.00 | not on ODIN list |
| PH-3 | NT-106644 | DT14DS-Fujitsu | 49/129 | Active | $234.00 | 2164332958 |
| | | | | | | |
| Computer, Micro | 7700004147 | 75MSW | 142/112 | Active | $1,831.00 | |
| Display Unit | 7700004710 | 101CG43HQ031 | 142/112 | Active | $0.00 | CPU-7700004147 |
| Lens, Camera | 1275181 | 33872 | 3/9 | Active | $1,617.00 | |
| PH-2 | NT-103453 | XKT-GTE | 142/112 | Active | $206.00 | 2164335506 |
| | | | | | | |
| Computer, Micro | 1892753 | F92T4 | 142/236 | Active | $0.00 | |
| Display Unit | 2007618 | QI93098233 | 142/236 | Active | $600.00 | CPU-1892753 |
| | | | | | | |
| PH-1 | NT-100663 | XSI-Starplus II | 142/160 | Active | $193.00 | 2164332694 |
| PH-2 | NT-102690 | XKT-GTE | 142/130 | Active | $206.00 | 2164332667 |
| | | | | | | |
| Computer, Micro | 7700002102 | | 142/295 | Active | $0.00 | not on ODIN list |
| Display Unit | 1889518 | 2743363 | 142/295 | Active | $1,250.00 | ODIN |
| PH-3 | NT-110264 | DT12DS-Fujitsu | 142/295 | Active | $228.00 | 2164338720 |
| | | | | | | |
| Computer, Micro | 2046157 | 6852DBLZK057 | 142/155 | Active | $958.00 | |
| Display Unit | 1892677 | 84779JG9RK | 142/155 | Active | $0.00 | CPU-2046157 |
| PH-2 | NT-100209 | XSI-Starplus II | 142/155 | Active | $212.00 | 2164338974 |
| Terminal, Data Processing | 1747418 | 1307378 | 142/155 | Active | $1,377.00 | |
| | | | | | | |
| Display Unit | 2005499 | G8J004274 | 142/130 | Active | $500.00 | |
| Display Unit | 2048018 | 2136279 | 142/130 | Active | $936.00 | |
| PH-2 | NT-103103 | XKT-GTE | 142/130 | Active | $206.00 | 2164332524 |
| | | | | | | |
| Computer, Micro | 7700004440 | 80069137386 | 142/293 | Active | $12,267.00 | |
| Computer, Micro | 7700000405 | U205FCDZA013 | 142/293 | Active | $2,144.00 | |
| Display Unit | 7700001986 | 2415543 | 142/293 | Active | $0.00 | CPU-7700004440 |
| Display Unit | 7700000312 | 41E014900430 | 142/293 | Active | $0.00 | CPU-7700000405 |
| External CD Unit | 7700004645 | P-CDR40EXT | 142/293 | Active | $0.00 | CPU-7700004440 |
| PH-2 | NT-104476 | XKT-GTE | 142/293 | Active | $206.00 | 2164332877 |
| | | | | | | |
| Computer, Micro | 7700002104 | | 142/291 | Active | $0.00 | Not on ODIN list |
| Display Unit | 7700001908 | | 142/291 | Active | $0.00 | Not on ODIN list |
| | | | | | | |
| Computer, Micro | 2005868 | 0800690C2B88 | 142/285 | Active | $1,213.00 | |
| Computer, Micro | 1620369 | CK8393PTEEY | 142/176 | Active | $5,361.00 | |
| Computer, Micro | 1746212 | 0800690C4AB5 | 142/176 | Active | $13,792.00 | ODIN |
| Computer, Micro | 2134144 | XB1341CFKSJ | 142/175 | Active | $836.00 | ODIN |
| Computer, Micro | 7700002939 | XB13711RKSD | 142/175 | Active | $2,043.00 | |
| Disk Drive Unit | 2134823 | EC008BBC | 142/176 | Active | $3,147.00 | retagged, previously 2049 |
| Disk Drive Unit | 2049180 | EC008D08 | 142/176 | Active | $3,147.00 | |
| Display Unit | 2134145 | CY129182JU8 | 142/175 | Active | $0.00 | CPU-2134144 |

| | | | | | | |
|---|---|---|---|---|---|---|
| Display Unit | 2006892 | 2060048 | 142/176 | Active | $863.00 | ODIN |
| Display Unit | 2005869 | 2060046 | 142/285 | Active | $863.00 | |
| Display Unit | 1328091 | 9324EQ0682 | 142/150 | Active | $2,000.00 | |
| Extender, Bus | 2048012 | 07140001TM3 | 142/285 | Active | $2,283.00 | |
| Extender, Bus | 2048013 | 07140002TM3 | 142/285 | Active | $2,635.00 | |
| External Disk Drive | 7700002761 | 30926 | 142/175 | Active | $0.00 | CPU-7700002939 |
| PH-1 | XT-101441 | Modem line | 142/150 | Active | $193.00 | 2164334362-Modem |
| PH-1 | XT-101445 | Modem line | 142/150 | Active | $193.00 | 2164334364-Modem |
| PH-1 | XT-101468 | Modem line | 142/150 | Active | $193.00 | 2164334365-Modem |
| PH-1 | XT-101444 | Modem line | 142/150 | Active | $193.00 | 2164334363-Modem |
| Printer, Laser | 1275780 | USBC059222 | 142/176 | Active | $97.00 | ODIN |
| Router, Communications | 2048011 | 07140034-520 | 142/285 | Active | $2,195.00 | |
| Router, Communications | 1500513 | 45509519 | 142/151 | Active | $9,072.00 | |
| Router, Ethernet | 1889525 | 250486429 | 142/151 | Active | $1,046.00 | |
| Server, Communications | 2134126 | 251343566 | 142/151 | Active | $1,320.00 | |
| USB Hub | 7700002777 | GCH010708572 | 142/175 | Active | $0.00 | CPU-7700002939 |
| | | | | | | |
| Computer, Micro | 2047836 | 6021DWJ2B024 | 142/164 | Active | $1,783.00 | ODIN |
| Degausser, Tape | 316698 | 7070 | 142/160 | Active | $1,380.00 | |
| Display Unit | 1435068 | 352X88PL348 | 142/160D | Active | $650.00 | |
| Logic Unit, Power | 705942 | 2122308747 | 142/160D | Active | $5,880.00 | |
| PH-3 | NT-107398 | DT14-Fujitsu | 142/164 | Active | $234.00 | 2164332058 |
| Printer, Laser | 1500136 | J10BS75 | 142/160N1 | Active | $6,556.00 | |
| Terminal, Data Processing | 1435069 | 352XTC817 | 142/160PS | Active | $1,547.00 | |
| Terminal, Data Processing | 247364 | 3180BK745 | 142/160PS | Active | $1,127.00 | |
| Terminal, Data Processing | 1276284 | 3180Q3831RT320870 | 142/160PS | Active | $1,127.00 | |
| Terminal, Data Processing | 1276282 | 3180C3160RT318940 | 142/160PS | Active | $1,377.00 | |
| Terminal, Data Processing | 1747417 | 1303365 | 142/160PS | Active | $1,377.00 | |
| Terminal, Data Processing | 247370 | 3180BK310 | 142/160PS | Active | $1,127.00 | |
| Terminal, Data Processing | 320852 | Q3400 | 142/160PS | Active | $1,127.00 | |
| Terminal, Data Processing | 318936 | 3180C2936 | 142/160PS | Active | $1,377.00 | |
| Terminal, Data Processing | 318929 | 3180C3298 | 142/160PS | Active | $1,377.00 | |
| Terminal, Data Processing | 318927 | 3180-A8439 | 142/160PS | Active | $1,377.00 | |
| Terminal, Data Processing | 276867 | 3180-DK432 | 142/160D | Active | $1,007.00 | |
| Terminal, Data Processing | 276244 | 3180-DP741 | 142/164 | Active | $1,007.00 | |
| Terminal, Data Processing | 320906 | Q1141 | 142/160PS | Active | $1,127.00 | |
| Terminal, Data Processing | 1226198 | Q1141 | 142/160PS | Active | $1,007.00 | |
| | | | | | | |
| Computer, Micro | 2006758 | ZYJNT | 142/269 | Active | $2,331.00 | |
| Computer, Portable | 2049490 | 1J03CQK1D849 | 142/269 | Active | $870.00 | |
| Computer, Portable | 2047609 | 74NUL | 142/269 | Active | $2,331.00 | ODIN |
| Display Unit | 1886573 | 8399883 | 142/184 | Active | $500.00 | |
| PH-2 | NT-107589 | XSI-Starplus II | 142/269 | Active | $212.00 | 2164336530 |
| Telecommunication Devic | 2046884 | M9915800375 | 142/269 | Active | $799.00 | |
| Whiteboard, Electronic | 100647 | 311505 | 142/160 | Active | $2,125.00 | |
| | | | | | | |
| Computer, Micro | 2047190 | 6016DHMZA005 | 142/157 | Active | $1,807.00 | ODIN |
| Display Unit | 7790001273 | | 142/157 | Active | $0.00 | not on ODIN list |
| PH-2 | NT-102420 | XKT-GTE | 142/157 | Active | $206.00 | 2164333479 |
| | | | | | | |
| Computer, Micro | 7700005795 | | 142/113 | Active | $0.00 | not on ODIN list |
| Disk Drive Unit | 2135064 | 63007839 | 142/160H | Active | $3,628.00 | |